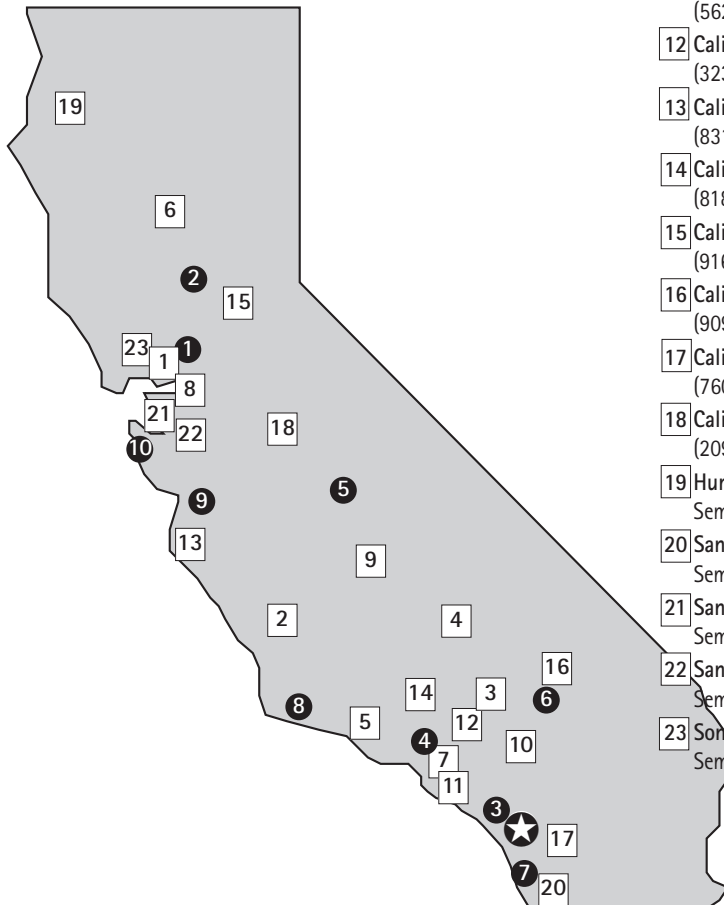


# California Four-Year Public Universities

## University of California – 10 Campuses

- 1 University of California, Berkeley (1868) • (510) 642-6000  
Semester Enrollment 33,558 • www.berkeley.edu
- 2 University of California, Davis (1908) • (530) 752-1011  
Quarter Enrollment 29,637 • www.ucdavis.edu
- 3 University of California, Irvine (1965) • (949) 824-5011  
Quarter Enrollment 25,024 • www.uci.edu
- 4 University of California, Los Angeles (1919) • (310) 825-4321  
Quarter Enrollment 37,221 • www.ucla.edu
- 5 University of California, Merced (2004) • (209) 724-4400  
Semester Enrollment 878 • www.ucmerced.edu
- 6 University of California, Riverside (1954) • (951) 827-1012  
Quarter Enrollment 16,622 • www.ucr.edu
- 7 University of California, San Diego (1964) • (858) 534-2230  
Quarter Enrollment 25,938 • www.ucsd.edu
- 8 University of California, Santa Barbara (1944) • (805) 893-8000  
Quarter Enrollment 21,016 • www.ucsb.edu
- 9 University of California, Santa Cruz (1965) • (831) 459-0111  
Quarter Enrollment 15,012 • www.ucsc.edu
- 10 University of California, San Francisco, is a graduate/professional institution requiring pre-professional preparation or graduate standing for admission. (415) 476-9000 • www.ucsf.edu



## California State University – 23 Campuses

- 1 California Maritime Academy (1929) • (800) 561-1945  
Semester Enrollment 828 • www.csum.edu
- 2 California Polytechnic State University, San Luis Obispo (1901)  
(805) 756-2311 • Quarter Enrollment 18,722 • www.calpoly.edu
- 3 California State Polytechnic University, Pomona (1938)  
(909) 869-3210 • Quarter Enroll. 20,510 • www.csupomona.edu
- 4 California State University, Bakersfield (1965)  
(661) 654-3036 • Quarter Enrollment 7,711 • www.csusb.edu
- 5 California State University, Channel Islands (2002)  
(805) 437-8500 • Semester Enrollment 3,123 • www.csuci.edu
- 6 California State University, Chico (1887) • (530) 898-6321  
Semester Enrollment 16,250 • www.csuchico.edu
- 7 California State University, Dominguez Hills (1960)  
(310) 243-3696 • Semester Enrollment 12,068 • www.csudh.edu
- 8 \* California State University, East Bay (1957) • (510) 885-2784  
Quarter Enrollment 12,706 • www.csueastbay.edu  
*\* formerly CSU Hayward*
- 9 California State University, Fresno (1911) • (559) 278-2261  
Semester Enrollment 22,098 • www.csufresno.edu
- 10 California State University, Fullerton (1957) • (714) 278-2300  
Semester Enrollment 35,921 • www.fullerton.edu
- 11 California State University, Long Beach (1949)  
(562) 985-5471 • Semester Enrollment 35,574 • www.csulb.edu
- 12 California State University, Los Angeles (1947)  
(323) 343-3901 • Quarter Enrollment 20,565 • www.calstatela.edu
- 13 California State University, Monterey Bay (1995)  
(831) 582-3518 • Semester Enrollment 3,818 • www.csUMB.edu
- 14 California State University, Northridge (1958)  
(818) 677-3700 • Semester Enrollment 34,560 • www.csun.edu
- 15 California State University, Sacramento (1947)  
(916) 278-3901 • Semester Enrollment 28,529 • www.csus.edu
- 16 California State University, San Bernardino (1960)  
(909) 537-5188 • Quarter Enrollment 16,479 • www.csusb.edu
- 17 California State University, San Marcos (1989)  
(760) 750-4848 • Semester Enrollment 8,734 • www.csusm.edu
- 18 California State University, Stanislaus (1957)  
(209) 667-3122 • 4-1-4 Enrollment 8,374 • www.csustan.edu
- 19 Humboldt State University (1913) • (707) 826-4402  
Semester Enrollment 7,435 • www.humboldt.edu
- 20 San Diego State University (1897) • (619) 594-6336  
Semester Enrollment 34,305 • www.sdsu.edu
- 21 San Francisco State University (1899) • (415) 338-1113  
Semester Enrollment 29,628 • www.sfsu.edu
- 22 San Jose State University (1857) • (408) 283-7500  
Semester Enrollment 29,604 • www.sjsu.edu
- 23 Sonoma State University (1960) • (707) 664-2778  
Semester Enrollment 8,274 • www.sonoma.edu

★ Saddleback College  
www.saddleback.edu

## Articulation/Transfer Patterns

### Transfer Planning

- I. Transfer students, that is, students planning to enter a university four-year college after attending Saddleback College, should take note of the following suggestions:
  - A. Consult the catalog of the college or university to which they intend to transfer for such requirements as:
    1. Admissions Information
    2. Major course requirements
    3. General education or breadth requirements
  - B. Notice the difference between lower and upper-division courses required by the particular college or school of the university in which the advanced work is to be taken.  
 Important point: Degree credit in the major can be expected only for those community college courses which parallel courses designated as lower division by four-year colleges or universities.
  - C. Note courses which must be taken in preparation for the major as well as those required in the major.
  - D. Remember that community college courses transfer to four-year colleges in terms of specific or elective credit depending upon the school and major selected. Refer to sample transfer programs on the following pages to determine if an example is offered for a particular major or institution. Refer also to the ASSIST (Articulation System Stimulating Interinstitutional Student Transfer) website at [www.assist.org](http://www.assist.org) which is the official California statewide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU transferable courses and major preparation. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.
  - E. Note any policies regarding the maximum number of units which may be transferable. A maximum of 70 transferable units completed at the community college level may be applied toward the total number of units required for a bachelor's degree by the University of California or the California State University. Subject credit for transferable courses in excess of 70 units may also be granted to satisfy university graduation requirements. Any courses accepted as equivalent to those offered in lower-division by the university completed at the community college, even if beyond the 70-unit maximum, will be applied where needed to meet specific lower-division major and/or general education/breadth requirements. **Therefore, students are strongly advised to complete all courses designated as required lower-division preparation for the major prior to transfer, especially where admission to the major is contingent on completion of specific courses.**
- II. Students should also avail themselves of opportunities to meet with representatives of colleges and universities which are scheduled throughout the academic year in the Transfer Center.
- III. Catalogs and applications for admission to the University of California and the California State University are available in the Career Center. The Career Center maintains catalogs and applications from other institutions as well and will provide assistance in obtaining information and applications.
- IV. Student Responsibility for Meeting Transfer Requirements: All students must assume complete responsibility for compliance with regulations and instructions set forth in university or college catalogs for their intended transfer institution, and for selecting the courses which will permit them to meet their educational objectives and for satisfying prerequisites for any programs or courses which they plan to take for transfer.

The following information is subject to change

### The California State University

(Refer to the California CSU/UC map)

#### \*Application Filing Periods

(Applications first accepted):

Summer Semester or Quarter:	February 1-28 (6 campuses)
Fall Semester or Quarter:	October 1- November 30
Winter Quarter:	June 1 - June 30
Spring Semester or Quarter:	August 1 - August 30

\*You are urged to file early. Applications to impacted majors must be filed during the initial filing period. The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated. If applying after the initial filing period, consult the campus admissions office or website for current information. Except for impacted majors, campuses accept applications until enrollment categories are filled. Most campuses will acknowledge receiving your application within two to four weeks. For more details refer to the CSU Mentor website at [www.csumentor.edu](http://www.csumentor.edu)

#### Definition of a Transfer Student

You are considered a transfer student if you have enrolled in a community college or university other than a CSU following high school graduation.

1. Students with fewer than 60 transferable semester (90 quarter) units are considered lower division transfer students.
2. Students who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students.
3. Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

#### Transfer Admission Requirements

Upper-Division Transfer Requirements (*60 or more transferable semester or 90 or more quarter units — see note below*):

You are eligible for admission if you:

1. Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units completed.
2. Are in good standing at the last college or university attended (i.e., you are eligible to re-enroll).
3. Have completed, or will complete prior to transfer at least 30 semester units (45 quarter units) or courses equivalent to general education requirements with a grade of "C" or better. The 30 semester units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking), and at least one course of at least 3 semester units (4 quarter units) is required in college-level mathematics. (See Area A and B-4 on Saddleback College's CSU G.E. certification pattern or Areas 1 and 2 of the IGETC).

**Note:** Some CSU campuses may accept a limited number of lower-division transfer applicants (applicants with fewer than 60 transferable units). Lower-division transfer applicants will be held to specified CSU eligibility standards. Check with a counselor and CSU mentor: [www.csumentor.edu](http://www.csumentor.edu) for details.

#### Transferable Coursework

Transferable courses are those designated for that purpose by the college or university offering the courses. Saddleback College certifies courses numbered 1 to 199 in the catalog as CSU-transferable.

A maximum of 70 semester (105 quarter) units earned in a community college may be transferred to the California State University; however, courses in excess of 70 semester units will receive subject credit and will be applied to satisfy content requirements as appropriate. No upper-division credit is allowed for courses taken in a community college.

Students transferring with certification of general education requirements are assured that they have met 39-units of the 48-unit minimum requirements for the bachelor's degree. Students transferring without certification of general education must complete the pattern of courses required of "native" students, as outlined in the catalog of the particular CSU campus. The CSU G.E. course pattern which Saddleback College uses to certify that the student has met the required minimum of 39 semester units of general education is listed below.

## Transfer Students and Certification of California State University General Education Requirements

(The Following Information is Subject to Change)

Courses on this list are approved for a specific academic year which begins with the Fall semester. Students wishing to use a course to meet a CSU G.E. Breadth requirement must be sure that the course is approved for the academic year in which it is taken. **This list is valid through Summer 2009 and is subject to change. Students are advised to consult with a Saddleback College counselor when planning coursework.**

Under provisions of CSU Executive Order 595, Saddleback College (SC) will certify completion of up to 39 of the 48 units required in general education. If SC certifies that you have completed courses from the following list approved for general education, the CSU campus to which you transfer will require you to complete the requirement in those sections in which you are not certified. You may be held only for additional courses required for "native" students, but you will not be required to complete more units than the difference between the amount certified and the total required.

After transfer, students must complete at least nine units of upper-division General Education courses in their junior or senior year.

**No student will be eligible to petition for certification until a minimum of 12 units has been completed at Saddleback College.**

**AREA A: COMMUNICATION AND CRITICAL THINKING**—Three courses totaling a minimum of nine units are required. (*Complete one course in Areas A1, A2, and A3 with a grade of "C" or better*) A grade of C- is not accepted in Area A:

**A1 Oral Communication**—SP 1 or 5 (formerly 105)

**A2 Written Communication**—ENG 1A

**A3 Critical Thinking**—*One course from the following:*  
ENG 1B, 170; PHIL 12; SP 2, 3

**AREA B: NATURAL SCIENCES AND MATHEMATICS**—At least nine units are required in Areas B1 through B4. (*One course must be taken from Areas B1 and B2 [one of which must be a laboratory course designated B3 with an asterisk\*], and one course from area B4*):

**B1 Physical Science**

ASTR 1,\* 20 (\*lab course when combined with ASTR 25), 21, 45, 145

CHEM 1A\*, 1B\*, 2A\*, 2B\*, 3\*, 8\*, 12A\*, 12B\*, 20\*, 108\*, 120\*

ENV 23\* [F89], 120\*

GEOL 1\*, 2\*, 3, 4, 5\*, 6\* [S07], 7, 20\*, 21, 23\*[F89]

GEOG 1, 1and 1L\*, 20

MS 1\*, 4\*, 20\*

PHYS 2A\*, 2B\*^, 3A\*, 4A\*, 4B\*^, 4C\* [S07], 20\*, 21\*

**B2 Biological Science**

ANTH 1 (\*lab course when combined with ANTH 1L), 10A, 16 (formerly 110A)

BIO 3A\* (formerly 1A\*), 3B\* (formerly 1B\*), 3C\* (beginning Spring 2007), 6\* (prior to F95), 11\*, 12\*, 15\*, 16\*, 18\*, 19\*, 20\*, 24, 40, 41, 43, 113\* (beginning Fall 2003)

ENV 18\*, 19\*, 24\* (lab designation beginning Fall 2007)

HORT 20\*

MS 3\*

**^ Retroactive to Fall '91**

**B3 \*Indicates a laboratory course**

**B4 Mathematics**

Courses applicable to Area B4 must be completed with a grade of "C" or better. A grade of C- is not accepting in Area B4:

MATH 2, 3A, 3B, 3C, 4B, 5, 6A, 6B, 7, 8, 9, 10, 11, 12, 24, 26, 112, 124, 128

**Note:** An intermediate algebra course (MATH 122) completed prior to Fall Semester 1988 will be accepted by the CSU as meeting graduation requirements in general education.

**AREA C: ARTS AND HUMANITIES**—At least three courses totaling a minimum of nine units are required. (*Complete one course from Area C1 and one course from Area C2. Complete a third course from either area*):

**C1 Arts**

ART 1, 4, 20, 21, 22, 23, 24, 25, 26, 28, 29 (formerly 27)

ARCH 12 (formerly 112)

CA 29, 30

DANC 64 (formerly PE/TA 64)

FASH 144 (beginning Fall 1993)

FA 20, 27

ID 110, 122, 125

MUS 1, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 [F90], 31, 32, 33, 34, 35, 40, 47, 49, 90, 91

PHOT 25

SP 32

TA 10, 11, 20, 21 (prior to Fall 1993), 22, 25, 26, 32, 110

**C2 Humanities**

ARAB 1 [F90], 1A [F90], 1B [F90], 2 [F90], 3 (beginning Spring 2007), 4 (beginning Spring 2007), 21

CHI 1 [F89], 1A [F89], 1B [F89], 2 [F89], 3 (beginning Fall 2007), 4 (beginning Fall 2007), 21

ENG 3, 4, 5, 7, 15A, 15B, 17A, 17B, 18, 19, 20, 21A, 21B, 21C, 21D, 21E, 23A, 23B, 24, 25, 27A, 27B, 27C, 27D, 27E, 27F, 29, 31 (formerly 131A), 31B, 32, 33, 34, 35, 36, 40, 41, 44, 46, 47, 48, 50, 52, 54, 56, 131A, 131B, 132, 134, 135, 136, 142 (formerly 42)

FR 1\*, 1A\*, 1B\*, 2\*, 3, 4, 10, 20, 21

GER 1\*, 1A\*, 1B\*, 2\*, 3, 4, 10, 21

HEBR 1 [F89], 1A [F89], 1B [F89], 2 [F89], 21

HIST 4 [F93], 5 [F93]

HUM 1, 2, 3, 4, 5, 10A, 10B, 21, 22, 25

IDS 1, 2, 3, 5

ITA 1\*, 1A\*, 1B\*, 2\*, 3, 4, 10, 21

JA 1 [F89], 1A [F89], 1B [F89], 2 [F89], 3 (reinstated), 4 (reinstated), 10 [F89], 21

KOR 1A, 1B, 21 [F96]

LAT 1 [F90], 1A [F90], 1B [F90], 2 [F90]

PHIL 1, 3, 4, 8, 9, 10, 14, 15

PORT 21

PRSN 1, 2, 3, 4

RUS 1 [F90], 1A [F90], 1B [F90], 2 [F90], 21 [F90]

SL 1 (formerly 32), 2 (formerly 33), 3 (formerly 34), 4 (formerly 35) [Sign Language courses beginning Fall 1993]

SPAN 1\* (or 1A\* and 1B\*), 2\*, 3, 4, 10, 20A, 20B, 21A, 21B  
 SP 30, 31  
 TA 30, 31  
 VIET 21

\*Beginning Fall 1988

**AREA D: SOCIAL AND BEHAVIORAL SCIENCES**—At least three courses totaling a minimum of nine units are required. +Courses are to be selected from Area D1 through D0 in at least two areas:

**D1 Anthropology**

ANTH 2, 3, 6, 8, 9, 10, 13 (beginning Spring 2007), 14 (beginning Fall 2003), ENV/SOC 22, ENV 36, HD 7, 15, HIST 26, 74, HS 100 (prior to F86), SOC 100 (prior to F88), HS 120 (prior to F86)

**D2 Economics**

ECON 2, 4 (formerly 1), 20 [MGMT 100 prior to Fall 1986], ENV 36, HD 15, HIST 26, 74, HS 100 (prior to F86), 120 (prior to F86), PS 9

**D3 Ethnic Studies**

ANTH 4, 7 (beginning Spring 2007); CCS 1, 2, 10; ENV 20, 21, HD 15, HIST 20, 26 (prior to S89), 33 (beginning Fall 2001), 74, 81; HS 100 (prior to F86), 120 (prior to S86); MGT 100 (prior to F88); PSYC 16<sup>^</sup> (formerly 116); SOC 4, 5# (beginning Fall 2004), 6, 20, 100 (prior to S88)

**D4 Gender Studies**

ANTH 21; ENV 35; HD 7, 15; HIST 21, 26; HS 120 (prior to F86); PS 9, 21; PSYC 21; SOC 21, 100 (prior to S89); WS 10, 21, 40

**D5 Geography**

GEOG 2, 3, 38; HIST 26, 74; HS 100 (prior to F86), SOC 100 (prior to F88), PS 9

**D6 History**

HIST 7, 8, 9, 10 (beginning Spring 2007), 11, 12, 15 (beginning Spring 2007), 16, 17, 18, 19, 22, 25, 27, 28, 30, 31, 32, 40, 41, 60, 62 (beginning Fall 2003), 63 (beginning Fall 2003), 70, 71, 72, 74; HD 15; HS 100 (prior to F86)

**D7 Interdisciplinary Social or Behavioral Science**

ANTH/SP 20 (formerly 109); CA/JRN 1 (beginning Fall 2005); ECON/ENV 6; ENV 1; HIST/PS 61 [F93], 74, 75, 80; PS/ECON 11; PSYC/SOC 30; SP 109

**D8 Political Science**

PS 1, 2, 4, 10 (beginning Spring 2007), 12, 14; PS/ECON 11, 17

**D9 Psychology**

PSYC 1, 2, 3, 5# (beginning Fall 2005), 7#, 16<sup>^</sup> (beginning Spring 2007), 33# (beginning Spring 2007), 37 (beginning Spring 2007)

**D0 Sociology**

SOC 1, 2, (retroactive Fall 1991), 5# (retroactive Fall 1991), 10, 15, 25 (beginning Fall 2005), 120 (prior to F88)  
 (HS 100, 120 prior to Fall 1986)

<sup>^</sup>PSYC 16 (formerly 116) either D3 [Fall 1993] or D9 [Fall 2007]

#Course listed in more than one area, but shall not be certified in more than one area.

**+Note: CSU Graduation Requirement in U.S. History, Constitution and American Ideals:** This CSU requirement can be met prior to transfer by completing PS 1 from Area D8 AND one U.S. History course in Area D6 selected from: HIST 7, 8, 16, 17, or 22. Courses taken to meet this requirement can also be used for 6 of the 9 units required in Area D above.

**AREA E: LIFE SKILLS** (A minimum of three units required):

APSY 140, 145, 150, 151, 160, 162, 163, 165

BUS 116 (beginning Fall 2002)

FASH 141 (formerly CFR/FCS 140)

FCS 115, 142 (beginning Fall 1997)

FN 50, 64

GERO 101

HLTH 1, 3; HLTH/HSC 105, HSC 120

HS 175 (beginning Fall 1995)

IDS 107

KNES 107 or select one course from KNES 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 41, 42, 43, 44, 45, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 90, 92, 93, 94 or DANC 63 (formerly PE/TA 63); or KNEA 1 or 107 (**Note:** one course maximum)

PSYC 5# (beginning Fall 2005), 7# (beginning Fall 2005), 33#

SPS 100, 110

WS 30, 100, 120, 135

#Course listed in more than one area, but shall not be certified in more than one area.

### Certification of CSU General Education Requirements

**No student will be eligible to petition for certification of the CSU General Education requirements until a minimum of 12 semester units have been completed at Saddleback College.**

Saddleback College will certify coursework completed at another California community college or any institution that participates in certifying general education coursework to the CSU, including CSU campuses other than the one to which the student is transferring, only if the courses are on the approved CSU general education list at the college where they were completed in the year when taken. Such a course will be certified in the General Education-Breadth area that is shown on the official certification list for the institution at which it was taken.

When coursework has been taken at a regionally accredited institution that does not maintain a CSU certification list, Saddleback College can certify coursework on a California State University or an approved California Community College general education course list or approved by Saddleback College faculty as meeting CSU general education-breadth certification standards.

Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for CSU G.E. Certification. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent.

Students meeting area requirements may petition for partial certification in one or more of the areas (i.e., Area B, C, D, or E), but the college will not certify course requirements short of an entire area. The institution to which a student transfers will require completion of the requirement in those sections which are not certified and may require additional specific courses as required of native students.

### IMPORTANT:

In general, courses listed as preparation for the major may also be applicable to general education requirements. Students should refer to the catalog of the institution offering their intended major to determine lower-division major requirements as well as those which are recommended or required in preparation for the major, and the transfer pattern section of the Saddleback College catalog for examples.

Also refer to ASSIST at [www.assist.org](http://www.assist.org) which is the official California state-wide database listing a selection of campus-approved articulation/transfer agreements, general education requirements, and information on UC and CSU-transferable courses. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

## University of California

(Refer to the California CSU/UC map)

### Priority Application Filing Periods

Fall Quarter:	November 1-30
Winter Quarter:	July 1-31
Spring Quarter:	October 1-31
<i>UC Berkeley accepts applications for Fall only</i>	
Fall Semester:	November 1-30

For further information regarding the application and admissions process, refer to the UC's online undergraduate application website at [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu)

### Eligibility for Transfer

**California Residents:** To qualify for admission to the University as a transfer student, a student must meet one of the following three sets of requirements. The pathway a student follows depends upon whether they were eligible for admission to the UC when they graduated from high school. California residents must have at least a "C" (2.0) average in all transferable college coursework.

- Students who were eligible for admission to the University when they graduated from high school [meaning they satisfied the Subject, Scholarship, and Examination requirements, or were identified by the University during the senior year in high school as eligible under the Eligibility in the Local Context (ELC) program], are eligible to transfer if they have a "C" (2.0) average in transferable coursework.
- Students who met the Scholarship Requirement but not the Subject Requirement must take transferable college courses in the missing subjects, earning a "C" or better in each required course, and have an overall "C" (2.0) average in all transferable college coursework to be eligible to transfer.
- Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:
  - Complete 60 semester units or 90 quarter units of transferable college credit with a grade-point average of at least 2.4, with no more than 14 semester (21 quarter) units completed on a credit/no credit basis **AND**
  - Complete the following course pattern requirement, earning a grade of "C" or better in each course:
    - two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
    - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; **AND**
    - four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC may satisfy Option 3B above of the transfer admission requirements.)

**Nonresidents:** The minimum admission requirements for non-residents are very similar to those for California residents. However, nonresidents must have a grade point average of 2.8 or higher in all transferable coursework. Students are advised to consult with the Admissions Office at the UC campus of choice for details and specific requirements.

If the number of applicants exceeds the spaces available for a particular campus or major—as is often the case—the campus uses criteria that exceed the minimum requirements to select students. Meeting the minimum requirements, therefore, is not enough to gain admission to many UC campuses and programs. The average grade-point average varies widely by campus and by major.

### Community College Transfer Priority Admission

UC campuses give priority consideration for admission to California community college students. A California community college student applying for admission to the University of California in advanced standing will be given priority admission over all other applicants if:

- you were enrolled at one or more California community colleges for at least two terms (excluding summer sessions);
- the last college attended before admission to a UC campus was a California community college (excluding summer sessions); and
- you have completed at least 30 semester (45 quarter) UC-transferable units at one or more California community colleges.

### Program Planning for Transfer to a UC Campus

Students planning to transfer to the University of California must keep the following requirements in mind when selecting courses:

- Admission/Major Requirements:

As indicated above, the University has a common set of requirements which specify minimum eligibility for admission as a transfer student. However, several campuses have additional requirements that may go well beyond minimum eligibility requirements, particularly where the number of applications exceeds the number of spaces available. Students should give first priority toward completing all lower-division requirements for the major. In many cases, completing a portion of the major requirements is essential to gain admission to the major at the junior level.

- General Education/Breadth:

Each school and college at every UC campus has its own general education, or breadth requirements designed to give students a broad background in a variety of academic areas. Students have the option of (1) completing the campus specific breadth requirements or (2) completing the Intersegmental General Education Transfer Core Curriculum (IGETC) outlined in the following section of this catalog.

A minimum of 120 units (180 quarter units) is required to complete a baccalaureate degree from the University of California. The University will award graduation credit for up to 70 semester (105 quarter) units of transferable coursework from a community college. Courses in excess of 70 semester units will receive subject credit and may be used to satisfy University subject requirements. Some campuses have limits on the number of transfer units that will be accepted. If your community college work is combined with credit from a four-year institution, there might be a problem. Please consult the Admissions Office at the UC campus that interests you.

In general, no UC course credit is given for a course completed after a more advanced course is completed in the same subject matter.

## Courses Accepted for Transfer to the University of California

### (Information Subject to Change)

The University of California Office of the President (UCOP) annually reviews Saddleback College course offerings to determine which courses are similar in nature, scope, and content to UC offerings. Saddleback College's UC-transferable course listings are available on ASSIST at [www.assist.org](http://www.assist.org). Saddleback College courses which do not appear on the UC Transfer Course Agreement (TCA) and are numbered from 1 to 99 are either pending UC transfer credit review by the UC Office of the President, or were not approved as UC-transferable. Consult with a Saddleback College counselor and refer often to ASSIST at [www.assist.org](http://www.assist.org).

## IGETC—The Intersegmental General Education Transfer Curriculum

### (Information Subject to Change)

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses that community college students can use to satisfy lower-division general education requirements at any campus of the University of California (UC) or California State University (CSU). The IGETC will permit a student to transfer from Saddleback College to a campus in either of these university systems without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements.

Completion of the IGETC is not a requirement for admission to a CSU or UC campus, nor is it the only way to fulfill the lower-division general education requirements of CSU or UC prior to transfer. The IGETC is most advantageous for transfers who have not yet decided on a major or a campus. Once a student has identified a major, it is important to work toward fulfilling any required preparatory courses—particularly in those professional or “high unit” majors that select applicants on the basis of satisfaction of lower-division major requirements. It is important to note that this does not preclude a student from following IGETC. However, IGETC should not be done to the exclusion of completing any preparatory courses needed for admission to the major.

It is not advisable for transfers to engineering and science majors at any UC campus to use IGETC. Students entering “high unit” majors, such as those in the sciences, must be careful to complete any needed lower-division major preparation. For example, majors in the sciences not only have specific science prerequisites, but also substantial mathematics requirements. Some majors specifically prohibit the use of IGETC.

**Courses on the following IGETC list are approved for the 2008-2009 academic year and are subject to change. Students wishing to use a course to meet an IGETC requirement must be sure that the course is on the list during the academic year it is taken. For example, in the course listing below, CA 30 [F'94] denotes that this course must have been completed in the Fall 1994 semester or later to receive IGETC credit.**

All courses for IGETC must be completed with a grade of “C” or better. Grades of C- will not apply in any category.

### AREA 1—ENGLISH COMMUNICATION

#### A. English Composition: ENG 1A

#### B. Critical Thinking-Composition: ENG 1B completed Summer 1992 or after.

Because courses in this category must meet criteria reviewed by an intersegmental faculty committee, it is highly unlikely that courses taken at an institution other than a California

community college will apply. The course must have been certified in the year when completed.

#### C. Oral Communication: SP 1 (required for CSU transfers only)

### AREA 2—MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

(1 course required):

MATH 2\*\*, 3A\*\*, 3B, 3C (formerly 4A), 4B, 6A, 6B, 7\*\*, 8\*\*, 9, 10, 11\*\*, 24, 26.

### AREA 3—ARTS and HUMANITIES

(at least three courses, nine semester units)

At least one course from the Arts, and one from the Humanities, and a third from either area.

#### A. Arts courses:

ARCH 12\*\* [S'07], ART 4, 20, 21, 22 [F'94], 23 [F'94], 24 [F'96], 25, 26, 28, 29 [F'02]; CA 29 [S'07], 30 [F'94]; DANC 64 (formerly PE/TA 64) [F'96]; FA 20 [F'94], 27; MUS 20, 21 [F'94], 23 [F'94], 24, 25, 26, 27 [F'94], 28 [F'94], 29 [F'94]; PHOT 25 [F'94]; TA 20, 21, 25, 26.

#### B. Humanities courses:

ARAB 3 [S'07], 4 [S'07], 21 [F'95]; CHI 3 [F'07], 4 [F'07], 21 [F'95]; ENG 15A, 15B, 17A, 17B, 18, 19, 20, 21A, 21B, 21C [F'95], 21D [F'95], 21E [F'95], 23A [F'95], 23B [F'95], 24 [F'95], 25, 27A, 27B, 27C, 27D, 27E, 27F, 31 [F'02], 35 [F'92], 44 [F'95], 46, 47, 50, 52 [F'97], 54 [F'95]; FR 3, 4, 20 [F'95], 21 [F'95]; GER 3, 4 21 [F'95]; HEBR 21 [F'95]; HIST 4, 5, 18, 30\*, 40\*, 41\*, 60, 61 [PRIOR TO F'95] 70\*, 71\*, 72\* [F'01], HIST/PS 75\*; HUM 1, 2, 3, 4, 10A, 10B, HIST 21/IDS 1 [F'94], HUM 22/IDS 2 [F'94]; ITA 3, 4, 21 [F'95]; JA ^3, ^4, 21 [F'95]; KOR 21 [F'95]; PRSN 3 [F'05], 4 [F'05]; PHIL 1, 3, 4, 14, 10, 15; SL 3 (formerly 34) [F'98], 4 (formerly 35) [F'98]; PORT 21 [F'95]; PS 61 [PRIOR TO F'95]; RUS 21 [F'95], SPAN 3, 4, 20A [F'01], 20B [F'01], 21A [F'01], 21B [F'01], VIET 21 [F'97]

^Reinstated

### AREA 4—SOCIAL and BEHAVIORAL SCIENCES

(at least three courses, nine semester units required)

Courses from at least two disciplines (courses listed by discipline, e.g., Anthropology, Political Science).

ANTH 2, 3 [F'03], 4 [S'07], 6 [F'03], 7 [S'07], 8 [F'02], 9, 10 [F'98], 13 [S'07], 14 [F'03], ANTH/SP 20 \*\* [F'98], ANTH 21 [F'92]; CA/JA 1 [S'07], CCS 1 [F'96], 2 [F'96], 10 [F'98]; ECON 2, 4 (formerly 1), ECON/ENV 6 [F'96], ECON/PS 11 [F'00]; ECON 20\*\* [F'94]; ENV 1 [F'01], GEOG 2, 3; HIST 7\*\* [F'96], 8\*\* [F'96], 9 [S'07], 10 [S'07], 11 [S'07], 12 [F'02], 15 [S'07], 16\*\*, 17\*\*, 18, 19, HIST/SOC 20, HIST 21 [F'92], 22\*\*, 25 [S'07], 27 [F'98], 28 [F'98], 30\*, 32 [S'07], 33 [F'01], 40\*, 41\*, 60, HIST/PS 61 [F'92], HIST 62 [F'03], 63 [F'03], 70\*, 71\*, 72\* [F'01], 74 [F'98], HIST/PS 75\*, HIST/PS 80 [F'00], HIST 81 [F'94]; HD 7; PS 1, 2, 4, 10 [S'07], 12, 14, 21 [F'98]; PSYC 1, 2, 3, 5 [S'06], 7, 16 [S'07], 21 [F'92], PSYC/SOC 30, PSYC 33 [S'07], 37 [S'07]; SOC 1, 2, 4, 5, 6 [F'96], 10 [S'05], 15 [F'97], 21\*\* [F'92], 25 [S'06]; WS 10, 40 [F'95].

### AREA 5—PHYSICAL and BIOLOGICAL SCIENCES

[Two courses and a minimum of seven units required]

Select one Physical Science course and one Biological Science course; at least one course must include a laboratory. **Note:** All courses with a laboratory component are underlined.

#### A. Physical Science courses:

ASTR 1 [PRIOR TO F'94], 20, 20 and 25, ASTR/GEOL 21 [F'01], ASTR 45 [F'01]; CHEM 1A\*\*, 1B\*\*, 3\*\*, 12A [S'07], 12B [S'07]; ENV/GEOL 23; GEOG 1, 1 and 1L [F'99]; GEOL 1, 2, 3 [S'05], 4 [S'04], 5, 6 [S'07], 7 [S'04], 20\*\*; MS 4, 20; PHYS 2A\*\*, 2B\*\*, 3A [F'00], 4A\*\*, 4B\*\*, 4C\*\* [S'07], 20\*\*.

**B. Biological Science courses:**

ANTH 1, 1 and 1L [F'98]; BIO 2, 3A [formerly 1A], 3B [formerly 1B], 3C [S'07], 5 [F'91-F'93], 6 [PRIOR TO F'94], 11 [F'93], 15 [S'07], 18 [F'99], BIO/ENV 19 [S'05], BIO 20\*\*  
40; 43 [S'07]; ENV 18 [F'99], 24 [S'07].

**LANGUAGE OTHER THAN ENGLISH** (required for UC transfers only):

Proficiency equal to two years of study in one foreign language in high school with grades of "C" or better. (An official copy of the high school transcript must be on file in Admissions and Records at Saddleback College); or select one course from the following: ARAB 1 [F'02], 2 [F'05]; CHI 1, 1B, 2 [F'05]; FR 1, 1B, 2 [F'05], 3 [F'05], 4 [F'05]; GER 1, 1A & 1B, 2 [F'05], 3 [F'05], 4 [F'05]; HEBR 1, 1A & 1B, 2 [F'05]; ITA 1, 1B, 2 [F'05], 3 [F'05], 4 [F'05]; JA 1, 1A & 1B, 2 [F'05]; PRSN 1, 2 [F'05], 3, 4; SPAN 1 2 [F'05], 3 [F'05], 4 [F'05], 6 [F'05]; or SL 1 (formerly SL 32 F'98) 2 [F'05], 3 [F'05], 4 [F'05]; OR students can fulfill the IGETC Language Other Than English (LOTE) proficiency requirement in one of the following ways [**Note:** The following information is subject to change]:

- 1) Official high school transcripts showing 2 years of high school coursework in one language other than English with a grade of "C-" or better in the fourth or later semester ("C-" for high school coursework is calculated as a "C" grade by the UC);
- 2) Complete, with at least a grade of "C" or better, one semester of any IGETC approved language other than English course at Saddleback College, or completion of any college-level foreign language course (excluding conversation courses) considered by the college to be equivalent to 2 years of high school foreign language. IGETC approved coursework above the proficiency level (e.g., above Foreign Language Level 1 at Saddleback College) may also be used to satisfy LOTE requirements and may also be used to satisfy IGETC requirements in Area 3 (Humanities) if on the college's approved IGETC certification list.
- 3) Achieve a satisfactory score on the SAT Subject Test in languages other than English (see a counselor for required test scores).
- 4) Achieve a score of 3 or higher on the College Board Advanced Placement (AP) Examination in a language other than English.
- 5) Achieve a score of 5 or higher on an International Baccalaureate (IB) Higher Level Examination in a language other than English.
- 6) Satisfactorily complete a proficiency test administered by a community college, university or other college in a language other than English. The test must assess student proficiency at a level equivalent to at least two years of high school foreign language.
7. (a) Official records which verify completion, with "C" grades or better, two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English; or  
(b) If secondary school was completed in a non-English-speaking country and the language of instruction at the secondary school was not English, LOTE can be certified for IGETC. The student must present official documentation of attendance at the secondary school.

**U.S. HISTORY, CONSTITUTION, AMERICAN IDEALS** (CSU GRADUATION REQUIREMENT ONLY):

Students transferring to a CSU campus should complete HIST 7\* or 8\* or 16\* or 17\* or 22\* and PS 1\* to meet the American Institutions Requirement in addition to minimum IGETC requirements. Application of the above courses to area 4 as well as to the American Institutions and Ideals requirement is at the discretion of the CSU campus.

\*Course may be listed in more than one area but shall not be certified in more than one area.

\*\*Indicates that UC course credit may be limited. No credit may be given for an introductory course if taken after a more advanced college course, e.g., BIO 20 or GEOL 20. Credit may be limited for courses with overlapping content, e.g., HIST 7, 8, 16, 17, and 22 or MATH 2, 7, and 8. Refer to the "Courses Accepted for Transfer to the University of California" listing in this section of the catalog, and ASSIST at [www.assist.org](http://www.assist.org) and the Counseling Services office at Saddleback College for additional information.

**Note:** Courses listed above were approved at the time of catalog publication. Because additional courses may be approved and requirements for subsequent years are subject to change, check with the Counseling Services office at Saddleback College for the latest information.

**Certification of IGETC Requirements**

Students must apply for the IGETC certification in the Office of Admissions and Records. Students can request IGETC certification from the Office of Admissions and Records only when an official transcript is being sent to either a University of California, a California State University, or any university or college which accepts IGETC certification. It is important to remember that coursework taken at other certifying community colleges will be certified only in areas certified by the community college where the course was completed on an approved California Community College course list in the year it was taken. Courses completed at non-certifying colleges and universities will be certified only when deemed equivalent to courses on approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and rigor standards.

**Note:** Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for IGETC. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent to courses on an approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and academic rigor standards.

Completion of a minimum of 60 units, including all requirements for IGETC certification, will satisfy graduation requirements at Saddleback College for an Associate in Arts Degree in General Studies.

**Partial Certification of IGETC Requirements**

Student may be partially certified if deficient no more than two courses, except that Areas 1 and 2 must be completed prior to transfer. If partially certified, the student has the option of completing the one or two remaining courses at another community college or at the transfer institution until the beginning of the second year of transfer.

**University of California General Education Breadth Requirements**

As previously indicated, each University of California (UC) campus has unique graduation requirements. Articulation agreements listing equivalent Saddleback courses meeting general education breadth requirements for UC campuses are available in the Counseling Services office or refer to ASSIST website at [www.assist.org](http://www.assist.org)

Articulation agreement information regarding course-to-course and major requirements for UC campuses is also available on ASSIST.

## University of California Transfer Admission Programs

The UC campuses offer a variety of programs in support of transfer admission, particularly for community college students. Inquire in the Counseling Services office for information regarding the Transfer Admissions Guarantee (TAG) program with all UC campuses except UC Berkeley and UC Los Angeles. In addition, students completing the Honors Program at Saddleback College are eligible for priority or guaranteed admission to participating UC campuses such as UC Irvine (Community College Honors Transfer Program), or UC Los Angeles (Transfer Alliance Program). For more information on available Honors UC transfer admissions programs, visit the Saddleback College Honors Program website: [www.saddleback.edu/ap/hon/transfer](http://www.saddleback.edu/ap/hon/transfer) or contact the Transfer Center.

## Independent California Colleges and Universities

There are 77 fully accredited independent colleges and universities currently affiliated with the Association of Independent California Colleges and Universities (AICCU) providing a host of options at undergraduate, graduate, and professional levels for students planning to continue their education beyond Saddleback College. There are many other private colleges and universities which are not affiliated with AICCU as well. Admissions policies vary widely from one school to another, and virtually all institutions give full credit for general education courses and usually for courses designated for transfer by the community college. A good rule to follow for independent colleges as well as for out-of-state institutions is to expect full credit for courses which are parallel in scope and content to courses offered for credit to lower-division "native" students at those institutions. Articulation agreements for many independent institutions are available in the Counseling Services office.

Independent colleges are flexible in admission policies and in awarding credit. They invite interested students to make an appointment with their Office of Admissions in order to discuss transfer opportunities on a personal basis.

Financial aid may be a primary factor in considering attending an independent college. Many students cut the cost in half by attending the community college for the lower-division program. Information on financial aid is available from financial aid offices on independent college campuses as well as in the Financial Aid office at Saddleback College.

Students are advised to refer to the AICCU's website at [www.aiccu.edu](http://www.aiccu.edu)

The following examples are illustrative of the variability of general education options for representative campuses accepting IGETC (IGETC/UC and/or IGETC/CSU options) and/or the CSU G.E. Certification pattern. The options listed for the example campuses are based upon information available at the time of catalog publication and are subject to change.

Example Campus	CSU G.E.	(CSU)IGETC	(UC)IGETC
<i>Azusa Pacific Univ.</i>		X+	
<i>Biola Univ.</i>		X+	
<i>Chapman Univ.</i>	X+	X+	X+
<i>Concordia Univ.</i>	X+	X+	X+
<i>Dominican College San Rafael</i>		X+	
<i>Golden Gate University</i>		X	
<i>Hope Int'l. Univ.</i>		X*+	X+
<i>Otis College-Art &amp; Design</i>		X+	
<i>Univ. of the Pacific</i>	X	X	X
<i>Univ. of Phoenix</i>	X+	X+	X+
<i>Univ. of San Francisco</i>		X+	
<i>Vanguard University</i>		X+	

\*Campus preferred option

+Requires additional G.E. requirements. For details, refer to the catalog for the college of choice, or contact the Counseling Services office at Saddleback College.

Students are advised to refer to the transfer college of choice catalog, website, and contact their admissions office for details regarding campus-specific general education requirements and options.

## Other Independent Colleges and Universities

Interested students will also find additional formalized articulation agreements in the Counseling Services office with numerous other independent colleges and universities, including Azusa Pacific University, Biola University, Chapman University, Concordia University, Embry-Riddle Aeronautical University, Hope International University, Los Angeles College of Chiropractic, Loma Linda University, National University, Occidental College, Pepperdine University-The Graziadio School of Business and Management, South Baylo University, Southern California College of Optometry, University of Phoenix, University of Redlands, University of San Diego, University of Southern California, Westmont College, and Woodbury University, among many others.

## California Articulation Number (CAN) (Information Subject to Change)

The California Articulation Number (CAN) system identifies some of the transferable, lower-division introductory preparatory courses commonly taught within each academic discipline on college campuses.

The CAN system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. Example: CAN ECON 2 on one campus will be acceptable for CAN ECON 2 on another participating campus. Each campus retains its own course numbering system.

Saddleback College courses qualified in the CAN system are designated following each course description in the schedule of classes.

Following is a list of Saddleback College (SC) courses qualified in the CAN system available at the time of catalog publication and is subject to change.

Students are advised to check with the Counseling Services office for the latest information, or refer to the CAN website at [www.cansystem.org](http://www.cansystem.org)

SC Course No.	Course Title	CAN Number
ACCT 1A	Financial Accounting	BUS 2
ACCT 1B	Managerial Accounting	BUS 4
ACCT 1A+1B		CAN BUS SEQ A
ANTH 1	Biological Anthropology	ANTH 2
ANTH 2	Cultural Anthropology	ANTH 4
ANTH 9	Introduction to Archaeology	ANTH 6
ART 10	Beginning Ceramics (Handbuilding)	ART 6
ART 25	Survey of Art History: Ancient Worlds to Gothic	ART 2
ART 26	Survey of Art History: Renaissance to Modern	ART 4
ART 25+26		CAN ART SEQ A
ART 40	Two-Dimensional Design	ART 14
ART 41	Three-Dimensional Design	ART 16
ART 50	Beginning Painting	ART 10
ART 60	Beginning Intaglio (Etching) and Relief	ART 20
ART 70	Fundamentals of Sculpture	ART 12
ART 80	Beginning Drawing	ART 8
BIO 11	Human Anatomy	BIO 10
BIO 12	Human Physiology	BIOL 12
BIO 11+12		CAN BIOL SEQ B

BIO 15	General Microbiology	BIOL 14	MATH 11	A Brief Course in Calculus	MATH 34
BUS 12	Business Law	BUS 8	MATH 24	Elemen. Differential Equations	MATH 24
BUS 14	Legal Environment of Business	BUS 12	MATH 26	Introduction to Linear Algebra	MATH 26
CDES /PSYC 7	Developmental Psychology: Childhood and Adolescence	FCS 14	MATH 124	Trigonometry	MATH 8
CHEM 1A	General Chemistry	CHEM 2	MUS 11	Harmony II	MUS 4
CHEM 1B	General Chemistry	CHEM 4	PHIL 1	Introduction to Philosophy	PHIL 2
CHEM 1A+1B		CAN CHEM SEQ A	PHIL 12	Introduction to Logic	PHIL 6
CIM 1	Introduction to Computer Information Systems	BUS 6	PHIL 15	Introduction to Ethics	PHIL 4
CS 3A + 3B	Computer Organization & Machine/Assembly Language	CSCI 10	PHOT 50	Introduction to Photography	ART 18
DR 23	Engineering Graphics and Descriptive Geometry	ENGR 2	PHYS 2A	Introduction to Physics	PHYS 2
ECON 2	Principles (Macro)	ECON 2	PHYS 2B	Introduction to Physics	PHYS 4
ECON 4	Principles (Micro)	ECON 4	PHYS 2A+2B		CAN PHYS SEQ A
ENG 1A	Principles of Composition I	ENGL 2	PHYS 4A	General Physics	PHYS 8
ENG 1B	Principles of Composition II	ENGL 4	PHYS 4B	General Physics	PHYS 12
ENG 1A+1B		CAN ENGL SEQ A	PHYS 4C	General Physics	PHYS 14
ENG 3	Introduction to Creative Writing	ENGL 6	PHYS 4A+4B+4C		CAN PHYS SEQ B
ENG 15A	Survey of American Literature: 1620–1860	ENGL 14	PS 1	American Government	GOVT 2
ENG 15B	Survey of American Literature: 1860–Contemporary	ENGL 16	PSYC 1	Introduction to Psychology	PSY 2
ENG 15A+15B		CAN ENGL SEQ C	PSYC/CDES 7	Developmental Psychology: Childhood and Adolescence	FCS 14
ENG 17A	Survey of English Literature: Beowulf to Romantic Movement	ENGL 8	SOC 1	Introduction to Sociology	SOC 2
ENG 17B	Survey of English Literature: Romantic Movement to the Present	ENGL 10	SOC 2	Social Problems	SOC 4
ENG 17A+17B		CAN ENGL SEQ B	SP 1	Communication Fundamentals	SPCH 4
ENG 27A	Introduction to the Novel	ENGL 18	SP 3	Argumentation and Debate	SPCH 6
ENG 27B	Introduction to Drama	ENGL 22	SP 5	Interpersonal Communication	SPCH 8
ENGR 31	Statics	ENGR 8	SPAN 1	Elementary Spanish	SPAN 2
ENGR 33	Electric Circuit Analysis	ENGR 12	SPAN 2	Elementary Spanish	SPAN 4
FN 50	Fundamentals of Nutrition	FCS 2	SPAN 3	Intermediate Spanish	SPAN 8
FN 110	Food Preparation Essentials	FCS 8	SPAN 4	Intermediate Spanish	SPAN 10
FR 1	Elementary French	FREN 2	SPAN 1+2		CAN SPAN SEQ A
FR 2	Elementary French	FREN 4	SPAN 3+4		CAN SPAN SEQ B
FR 3	Intermediate French	FREN 8	TA 1	Acting	DRAM 8
FR 4	Intermediate French	FREN 10	TA 35	Voice and Diction	DRAM 6
FR 1+2		CAN FREN SEQ A	TA 40	Stagecraft	DRAM 12
FR 3+4		CAN FREN SEQ B	TA 41	Stage Lighting	DRAM 10
GEOG 1	Physical Geography	GEOG 2	TA 43	Stage Make-up	DRAM 14
GEOG 2	Cultural Geography	GEOG 4			
GEOL 1	Introduction to Physical Geology	GEOL 2			
GEOL 2	Historical Geology	GEOL 4			
GER 1	Elementary German	GERM 2			
GER 2	Elementary German	GERM 4			
GER 3	Intermediate German	GERM 8			
GER 4	Intermediate German	GERM 10			
GER 1+2		CAN GERM SEQ A			
GER 3+4		CAN GERM SEQ B			
HIST 4	World History to 1750	HIST 14			
HIST 5	World History from 1750 to 1876	HIST 16			
HIST 16	History of the United States to 1876	HIST 8			
HIST 17	History of the United States Since 1876	HIST 10			
HIST 16+17		CAN HIST SEQ B			
HIST 4+5		CAN HIST SEQ C			
JRN 1	Mass Media and Society	JOUR 4			
JRN 2	News Writing	JOUR 2			
MATH 2	Pre-Calculus Mathematics	MATH 16			
MATH 3A	Analytic Geometry and Calculus	MATH 18			
MATH 3B	Analytic Geometry and Calculus	MATH 20			
MATH 3C	Analytic Geometry and Calculus	MATH 22			
MATH 3A+3B		CAN MATH SEQ B			
MATH 3A+3B+3C		CAN MATH SEQ C			
MATH 8	College Algebra/Brief Calculus	MATH 10			
MATH 9	Finite Mathematics	MATH 12			
MATH 10	Introduction to Statistics	STAT 2			

## Transfer Major Patterns

### (Information Subject to Change without Notice)

In developing a program for transfer, first consideration should be given to completing the courses required in the major or as preparation for the major. The student also should complete the general education or breadth requirements for the college of choice. For most majors, there should be opportunities to work in elective courses in general education, in the major, or as opportunities to explore vocational/non-vocational interests.

Students may want to complete an Associate Degree major consisting of at least 18 units in a single subject or related disciplines. While not a requirement for transfer, the Associate Degree is generally recommended, and proper planning should enable students to satisfy requirements for graduation from Saddleback College.

The following pages list selected examples of course patterns at Saddleback College reflecting lower-division requirements for transfer majors which will articulate specifically with a university offering the degree or programs indicated. These are merely a few examples of the many majors available and are subject to change as articulation is a year-round process. The Saddleback College Articulation Officer, in cooperation with instructional faculty, will continue to establish new articulation agreements, especially for those majors about which a number of students inquire. Copies of articulation agreements with four-year institutions are available in Saddleback College's Counseling Office, or refer to the ASSIST website at [www.assist.org](http://www.assist.org) which is the official state-wide database listing CSU and UC campus-approved transfer agreements, general education requirements, and information on UC and CSU-transferable courses. Students are also advised to contact a Saddleback College counselor for more information and details regarding other transfer agreements and options not listed in this section or which may not be available on ASSIST for your transfer college choice.

### **Articulation/Transfer Major Pattern Examples for Selected Programs and Campuses:**

The following selected examples of transfer major patterns for representative colleges are based on articulation information available at the time of Saddleback College catalog publication deadlines and are subject to change without notice, as articulation is a year-round process. Please check with the Counseling office, and the ASSIST website at [www.assist.org](http://www.assist.org) for current articulation information.

## Administration of Justice

### SEE CRIMINAL JUSTICE

## American Studies

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in American Studies

American Studies is an interdisciplinary program designed for students with a special interest in the study of American society. It is a useful program for career preparation in law, government service, business, communications, and teaching, as well as serving as a foundation for advanced study at the graduate level.

There is one specific lower-division requirement for this major to be taken after transfer to CSUF. The transfer student is advised to complete general education certification requirements and to obtain broad preparation in two disciplines of interest such as history, sociology, anthropology, women's studies, early childhood studies, administration of justice, English, psychology, geography, or political science.

Because American Studies is interdisciplinary, the major may be effectively combined with subject matter studies necessary for either the multiple subject teaching credential (K-8) or single subject credential (Grade 7-12) in social science. Students are advised to contact CSUF's Center for Careers in Teaching at (714) 278-7130 as early as possible to plan efficient course selections for general education, the major and electives.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in American Studies

The American Studies major at CSU Long Beach is an upper-division major which requires a lower-division two-semester survey of American literature sequence (CSULB's English 270A, 270B). See Saddleback College equivalency below for this requirement.

*Lower-division Major Preparation:* ENG 15A, 15B.

Refer to the CSULB catalog for further information regarding program requirements.

## Anthropology

### CALIFORNIA STATE UNIVERSITY, FULLERTON (F)

### CALIFORNIA STATE UNIVERSITY, LONG BEACH (LB)

### SAN DIEGO STATE UNIVERSITY (SD) \*

#### Bachelor of Arts in Anthropology (CSUF, CSULB, SDSU)

*Lower-division Preparation:*

ANTH 1	F	LB	SD
ANTH 2	F	LB	SD
ANTH 3		LB	
ANTH 9	F	LB	
MATH 10			SD

\*San Diego State's Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Refer to ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

General education requirements: California State University general education requirements are listed in the introduction to this section of the catalog.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Anthropology

**Note:** In fulfillment of the requirements below, a single course may be used only once:

*Lower-division Requirements for the Major:* ANTH 2 and ANTH 1 or 3 or 9 and select four courses from: ANTH 1#, 3#, 4, 6, 7, 8, 9#, 10, 13, 14, 15, (ANTH 20 or SP 20), 21, or GEOG 38 (#ANTH 1, 3 or 9 may be selected if not already taken above); CIM 10 or (CIM 2A and CIM 10) or (CS 4A and 4B); (\*MATH 3A and \*MATH 10) or a one-year statistics sequence completed at UCI after transfer. **\*Note:** The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

#### Bachelor of Arts in Anthropology

*Lower-division Major Preparation:* ANTH 1, 2, 9.

#### Bachelor of Science in Anthropology

*Lower-division Major Preparation:* ANTH 1, 2, 9; BIO (3A & 3B & 3C); CHEM (1A & 1B), 12A; MATH (3A & 3B), 10; lower-division physics coursework required after transfer.

For more information regarding these programs and UCLA's transfer selection process refer to the UCLA catalog, ASSIST at [www.assist.org](http://www.assist.org), and UCLA websites: [www.anthro.ucla.edu](http://www.anthro.ucla.edu) and [www.admissions.ucla.edu](http://www.admissions.ucla.edu)

## Architecture and Environmental Design Majors

### CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

*+Transfer credit for all Architecture (ARCH) course equivalencies listed below is subject to portfolio review at Cal Poly Pomona.*

#### Bachelor of Architecture

This major is impacted and applications are accepted only during the CSU initial filing period for Fall. Refer to ASSIST at [www.assist.org](http://www.assist.org) for details regarding selection criteria and GPA requirements.

*Lower-division Major Preparation:* +ARCH 34, 42, 44, 124A, 136.

Cal Poly Pomona lower-division preparation should also include: ENG 1A\*, 1B\*; MATH 124\*; PHYS 2A; SP (1\* or 5\*), 3. **\*Note:** The "Golden Four" (Oral Communication, English Composition, Critical Thinking and Quantitative Reasoning) G.E. Certification requirements must be completed no later than the Fall semester prior to Fall transfer.

#### Bachelor of Science in Landscape Architecture

There are no equivalencies meeting lower-division major preparation for this major to be taken prior to transfer. Interested students are advised to consult with a Cal Poly Pomona advisor. **Note:** Students are advised to complete CSU G.E. Certification or IGETC Certification requirements prior to transfer, and required support course: ART 80.

### CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

*+Transfer credit for all Architecture (ARCH) course equivalencies listed below is subject to portfolio review at Cal Poly San Luis Obispo.*

**Bachelor of Architecture**

*Lower-division Major Course Requirements:* +ARCH 34, 42, 44, 136.

*Lower-division Support Courses:* +ARCH 10; MATH 3A, 3B; PHYS (2A or 4A).

**Bachelor of Science in Architectural Engineering**

*Lower-division Major Preparation:* ENGR 31 (recommended).

*Lower-division Support Courses:* +ARCH 10, 34, 42, 44, 126, 136; CHEM 1A; GEOL 1; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

**Bachelor of Science in City and Regional Planning**

*Lower-division Support Courses:* +ARCH 10; CHEM 1A; MATH (2 or 7 or 8).

**Bachelor of Science in Landscape Architecture**

*Lower-division Support Courses:* +ARCH 10; BIO 3B; HORT 10, 11; MATH (2 or 7 or 8) and (2 or 124). Note: The prerequisite for BIO 3B is BIO 3A.

*General Education and Breadth:* See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog.

Refer to ASSIST at [www.assist.org](http://www.assist.org) and [www.ess.calpoly.edu/\\_admiss/undergrad/index.htm](http://www.ess.calpoly.edu/_admiss/undergrad/index.htm) for additional information and transfer selection criteria for Cal Poly San Luis Obispo's Architecture programs.

**UNIVERSITY OF CALIFORNIA, BERKELEY****Architecture**

*Lower-division Design Prerequisites:* ARCH (34 and 44); ART (42 and 80).

*Lower-division Non-Design Skills Prerequisites:* ENG 1A, 1B, 25; MATH 3A, 3B; PHYS 4A.

UC Berkeley does not recommend IGETC for this major. Refer to the UCB catalog and ASSIST at [www.assist.org](http://www.assist.org) for details regarding course selection for G.E. breadth and program requirements. This major does not confer professional architect status.

**Art****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Arts in Art**

The Bachelor of Arts degree offers concentrations in Art History, General Studio Art, and Teaching.

*Art History Concentration:* ART 25, 26, and two courses from the following lower-division studio courses: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, 85, (ART 140 or GD 140), (ART 144 or GD 144), 175 ; plus nine units of transferable lower-division electives in American Studies, Anthropology, Art, History, Literature, Music, Philosophy, or Theater.

*General Studio Art Concentration:* ART 25, 26, 40, 41, 50, 80, 85, and at least 6 units of transferable lower-division elective courses from two of the following areas: Ceramics: ART 10, 11; Drawing and Painting: ART 51, 52, 81; Printmaking: ART 60, 61, 62, (ART 140 or GD 140), (ART 144 or GD 144); Sculpture: ART 70, 71, 72, 175.

*Teaching Concentration:* (Single Subject Instruction—for teaching Art in Grades K-12): ART 10, 25, 26, 40, 41, 50, 51, 80, 85.

**Bachelor of Fine Arts in Art**

The Bachelor of Fine Arts degree at CSU Fullerton is a professional program providing directed studies in nine studio concentrations within the visual arts.

Upon admission to CSUF with art as the major, students are placed in the Bachelor of Arts category, whether entering as a freshman or transferring from a community college. After admission to CSUF students should contact the Art Department regarding procedures for changing their academic objective to the Bachelor of Fine Arts in Art. \*Students must provide proof of completion of the following lower-division studio core courses (12 units) with a "B" or better grade-point average for all concentrations listed:

*Studio Core Courses (12 units):* ART 40, 41, 50, 80 are required for all of the following concentrations listed below.

**Note:** Concentrations (In fulfillment of the requirements listed below for each concentration, a single course may be used only once.)

*Ceramics:* Studio Core: ART 40, 41, 50, 80; and ART 10, 11, 25, 26, 85 required; and 6 units of studio electives selected from: ART 51, 52, 60, 61, 62, 70, 71, 72, 81, (ART 140 or GD 140), (ART 144 or GD 144), 175.

*Crafts:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 81 required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 85, (ART 140 or GD 140), (ART 144 or GD 144), 175.

*Creative Photography:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, (60 or 61 or 62), 85 required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60\*, 61\*, 62\* (\*if not taken to fulfill preceding requirements), 70, 71, 72, 81, (ART 140 or GD 140), (ART 144 or GD 144), 175.

*Drawing and Painting:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 51, 52, 85 required; and 6 units of studio electives selected from: ART 10, 11, 60, 61, 62, 70, 71, 72, 81, (ART 140 or GD 140), (ART 144 or GD 144), 175.

*Entertainment Art/Animation:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 85 required; and 3 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, (ART 140 or GD 140), (ART 144 or GD 144), 175.

*Graphic Design:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 85, (ART 140 or GD 140), (ART 144 or GD 144) required; and 3 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, 175.

*Illustration:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 81, 85, (ART 144 or GD 144) required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, (ART 140 or GD 140), 175.

*Printmaking:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 51, (60 or 61 or 62), 85 required; and 6 units of studio electives selected from: ART 10, 11, 52, 60\*, 61\*, 62\* (\*if not taken to fulfill preceding requirements), 70, 71, 72, 81, (ART 140 or GD 140), (ART 144 or GD 144), 175.

*Sculpture:* Studio Core: ART 40, 41, 50, 80; and ART 25, 26, 85 required; and 1 course from: ART 70, 71\*, 72\*, 175\*, and select 6 units of studio electives from the following if not previously taken: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72\*, 81, (ART 140 or GD 140), (ART 144 or GD 144), 175. \*(If not taken to fulfill preceding requirements)

General education requirements: General education certification requirements are listed in the introduction to this section of the catalog.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Arts in Art \*Studio Art Option, Art History Option, or Art Education Option**

*Lower-division Preparation:*

\**Studio Art Option:* ART 22, 25, 26, 40, 41, 50, 80, 85, and select one course from: ART 10, 11, 60, 70 or 78; GD 141,148; PHOT 50

**\*Note:** The Studio Art option is impacted. Per CSULB, students must complete all general education requirements and all lower-division art prerequisites prior to the semester for which the application is submitted. Students will be admitted based on their overall GPA, on a space available basis. Portfolio of creative work and a letter of recommendation will be required.

*Art History Option:* ART 22, 25, 26, 40, 80; HIST 62, 63; and select one course from ART 41, 50, 70, 85; completion of two years of college-level French or German with an average grade of "B" or better—refer to the CSULB catalog for other options regarding the foreign language requirement for this major.

*Art Education Option:* ART 10, 11, 22, 25, 26, 40, 41, 50, 80, 85. (Single Subject Instruction—major for teaching art in grades K-12)

### Bachelor of Fine Arts

The B.F.A. majors at CSULB are impacted. Refer to ASSIST at [www.assist.org](http://www.assist.org) and CSULB's admissions information website at [www.csulb.edu/depts/enrollment/admissions/impacted\\_major.html](http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html) for details regarding supplementary admission criteria, GPA and other pertinent admissions information.

*Lower-division Preparation:*

*Art Photography:* ART 22, 25, 26, 40, 41, (78 or 85), 80; PHOT 50.

*Ceramics:* ART 10, 11, 22, 25, 26, 40, 41, 50, (78 or 85), 80.

*Drawing and Painting:* ART 22, 25, 26, 40, 41, 50, 80, 85; and one course from: ART 10, 11, 70 or 78.

*Graphic Design:* ART 22, 25, 26, 40, 41, 50, 80, 85, (ART 144 or GD 144).

*Illustration:* ART 22, 25, 26, 40, 41, 50, 80, 85, (ART 141 or GD 141), (ART 144 or GD 144).

*3-D Media:* ART (10 or 11), 22, 25, 26, 40, 41, 50, 70, (78 or 85), 80.

*Printmaking:* ART 22, 25, 26, 40, 41, 50, 80, 85; PHOT 50.

*Sculpture:* ART 22, 25, 26, 40, 41, 50, 70, 78, 80, 85; PHOT 50.

For more information regarding this major, refer to the CSU Long Beach catalog, and ASSIST at [www.assist.org](http://www.assist.org)

Also refer to general education certification requirements in the introduction to this section of the catalog.

**IMPORTANT:** Admissions to all of the preceding programs at CSULB are on a competitive basis, and continuing CSULB students and transfer applicants will be considered equally. 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. Students are advised to refer to the current CSULB catalog, ASSIST at [www.assist.org](http://www.assist.org), and contact CSULB's College of the Arts for further details and selection criteria for these programs.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Studio Art

*Lower-division Preparation:* (ART 25 and 26) or (ART 22 and UCI coursework after transfer); and select four courses in different media from:

*Drawing:* ART 80, 81.

*Painting:* ART 50, 51.

*Basic Sculpture:* ART 70, 71.

*Ceramic Sculpture:* ART 9, 10.

*Digital Imaging:* PHOT 50; Portfolio required to determine placement.

#### Bachelor of Arts in Art History

*Lower-division Preparation:* (ART 25 and 26) or (ART 22 and UCI coursework after transfer); **AND**

Two years in a single language other than English at university level (or equivalent): Arabic, French, German, Italian, Persian, or Spanish 4; **AND**

*School Core Requirements:*

Complete ENG (1A and 1B) and HUM (10A and 10B); **OR**

Complete ENG (1A and 1B) and HUM (1 and 3); Select two HUM (1 or 2 or 3); **OR**

Select at least one course from each of the following areas for a total of at least four semester courses:

*Writing:* ENG 1A, 1B.

*English Literature:* ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B.

*History:* HIST 4, 5, 7, 8, 16, 17, 19, 62, 63.

*Philosophy:* PHIL 1, 15.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to the ASSIST website at [www.assist.org](http://www.assist.org)

## Astronomy

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts—Astronomy

*Lower-division Requirements:* ASTR 20 (recommended); MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C. SDSU's ASTR 201 must be taken after transfer.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

#### Bachelor of Science—Astronomy

*Lower-division Requirements:* ASTR 20 (recommended); MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C. SDSU's ASTR 201 must be taken after transfer.

Students majoring in astronomy for the Bachelor of Science degree must also complete a minor in Mathematics after transfer. See the SDSU catalog for additional information.

General education: Refer to California State University certification requirements.

## Biological Sciences

*Recommended Preparation:*

A fully prepared biological sciences major may complete required lower-division coursework in two years, although many students choose to spread coursework over a longer period. If you have not taken a mathematically-oriented chemistry course in the last five years with a grade of "C" or better and minimum of three or four years of high school mathematics including trigonometry, you should complete the following prerequisites to a biological science major:

CHEM 3 (or high school chemistry as indicated above)

MATH (253 or 255) and 124 (intermediate algebra and trigonometry) and/or

MATH 2 (pre-calculus mathematics, if major requires calculus or calculus-based physics)

**CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Arts in Biological Science**

The following four concentrations are available at CSU Fullerton: 1) Biodiversity, Ecology and Conservation Biology; 2) Cell and Developmental Biology; 3) Marine Biology; and 4) Molecular Biology and Biotechnology.

To qualify for a baccalaureate degree in Biological Sciences, students must have a 2.0 overall GPA in all required supporting courses. No credit will be allowed for biological science courses in which a grade of C- or lower is earned. Courses taken with the credit/no credit grading option may not be used.

*Lower-division Core Requirements:* BIO (3A and 3B and 3C) (complete entire sequence prior to transfer). An additional 5-unit course will be required after transfer.

*Lower-division Supporting Course Requirements:* The following courses will meet support-course requirements for all options in biology and should be included in general education requirements: CHEM 1A, 1B, (12A & 12B); PHYS (2A and 2B); MATH (3A or 11) (MATH 3A preferred).

Refer to the CSUF catalog and the ASSIST website at [www.assist.org](http://www.assist.org) for additional information regarding this program.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Science in Biology**

This degree includes a general biology option and six additional specialized options in biology education, botany, cell and molecular biology, ecology and environmental biology, physiology, and zoology.

Core Courses:

*Biology (General) Option:* BIO (3A & 3B & 3C); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B).

*Biology Education Option - (This program is designed for the Single Subject Teaching Credential in Science-Biological Science Concentration):* ASTR (20 and 25); BIO 3A, 3B, 3C, 15 BIO/ENV 19; CHEM 1A, 1B; GEOL 1; MATH 3A; PHYS (2A and 2B).

*Botany Option:* BIO (3A & 3B & 3C); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B).

*Cell and Molecular Biology Option:* BIO (3A & 3B & 3C), 15; CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B).

*Ecology Option:* BIO (3A & 3B & 3C); CHEM 1A, 1B; GEOL 1; MATH 3A, 3B; PHYS (2A and 2B).

*Physiology Option:* BIO (3A & 3B & 3C); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B).

*Zoology Option:* BIO (3A & 3B & 3C); CHEM 1A, 1B; (GEOL 1 or BIO 15); MATH 3A, 3B; PHYS (2A and 2B).

**Bachelor of Science in Marine Biology**

*Lower-division Preparation:* BIO (3A & 3B & 3C), (BIO 19 or ENV 19); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B).

Refer to the CSU Long Beach catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding both degree programs.

**CALIFORNIA STATE UNIVERSITY, SAN MARCOS****Bachelor of Science in Biological Sciences**

*Lower-division Preparation:* BIO 3A, 3B, 3C; CHEM 1A, 1B, 12A, 12B; MATH 3A; PHYS 2A, 2B or 4A, 4B.

Refer to the current CSU San Marcos catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Science in Biology and \*Bachelor of Arts in Biology**

Programs include the following emphases: Bioengineering, Cellular and Molecular Biology, Ecology, General Biology, Evolution and Systematics, Marine Biology, and Zoology.

*Lower-division preparation for all programs:* BIO 3A, 3B, 3C; CHEM 1A, 1B, 12A; MATH 3A; PHYS (2A and 2B).

*ADD for Bioengineering Emphasis:* ENGR 31, 33; MATH (3B and 3C); PHYS 4A, 4B, 4C.

\*Foreign Language Requirement for the B.A. in Biology: Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

For further details regarding GPA and selection criteria for these impacted programs, refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org)

**UNIVERSITY OF CALIFORNIA, DAVIS****Bachelor of Science in Biological Sciences**

Transfer students are strongly advised to complete as many preparatory courses as possible for this major prior to transfer.

*Lower-division Preparation:* BIO 3A, 3B, 3C; CHEM 1A, 1B, 12A, 12B; MATH (3A or 11), 3B, 10; PHYS (2A and 2B) sequence should be completed prior to transfer.

For further details regarding this program, refer to the UC Davis catalog and ASSIST at [www.assist.org](http://www.assist.org)

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Science in Biological Sciences**

Preference will be given to junior-level applicants with the highest grades overall. One year of general chemistry (with laboratory) and an approved sequence of biological sciences are required prior to transfer.

Once enrolled at UCI, Biological Sciences majors may take only UCI courses to satisfy the major requirements.

*Lower-division Requirements:* BIO 3A, 3B; CHEM (1A & 1B), (12A & 12B); MATH (3A & 3B preferred) or (\*MATH 3A and \*MATH 10); PHYS (4A and 4B) or (4A and 4C).

\***Note:** The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

For further details regarding GPA requirements and transfer selection criteria, refer to the UCI catalog and ASSIST at [www.assist.org](http://www.assist.org)

**UNIVERSITY OF CALIFORNIA, LOS ANGELES****Bachelor of Science in Biology**

The Biology major is designed for students with a broad interest in biology and careers in a wide range of biological and health-related fields. This major is highly selective. For additional information and selection criteria, students are advised to refer to the UCLA catalog, and ASSIST at [www.assist.org](http://www.assist.org)

*Lower-division Preparation:* BIO (3A & 3B), 3C; CHEM (1A & 1B), (12A & 12B); MATH 3A, 3B; PHYS (4A & 4B), 4C.

For more details regarding selection criteria for this major refer to ASSIST at [www.assist.org](http://www.assist.org) and also [www.eeb.ucla.edu/undergraduate.php](http://www.eeb.ucla.edu/undergraduate.php)

**UNIVERSITY OF CALIFORNIA, SAN DIEGO****Bachelor of Science in Biology (General)**

*Lower-division Preparation:* BIO 3A & 3B; CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

The biological sciences majors at UCSD are impacted and admissions is highly selective. A student's best six grades from at least eight of the prerequisite courses listed will be used to calculate a GPA. UCSD strongly advises students to complete as many major preparation courses as possible prior to transfer. For additional information regarding selection criteria, and GPA requirements for this impacted major, refer to the UCSD catalog and ASSIST at [www.assist.org](http://www.assist.org)

**UNIVERSITY OF SOUTHERN CALIFORNIA****Bachelor of Science in Biological Sciences**

*Lower-division Preparation:* BIO 3A, 3B; CHEM 1A & 1B; MATH 3A; PHYS (2A or 4A & 4C), (2B or 4B).

Also refer to the "Transferring to USC " booklet for general education and prerequisite information (available in the Counseling Services office), or online at [www.usc.edu/transferring](http://www.usc.edu/transferring)

**Botany****SEE BIOLOGICAL SCIENCES****Business Administration**

Admission to many business programs is competitive. Students are strongly advised to complete all of the major preparation courses before transfer. Completion of major preparation and the highest possible GPA makes a student competitive.

**CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Arts in Business Administration**

Areas of concentration for the Bachelor of Arts in Business Administration include: Accounting, Business Economics, Entertainment & Tourism, Entrepreneurship, Finance, Management, Management Information Systems, Management Science, and Marketing. A Bachelor of Arts in Economics is also offered (see Economics section of example transfer patterns). All courses for the major must be completed with a grade of "C" or better. The credit/no credit option may not be used for courses in the major.

*Lower-division Core Requirements:* ACCT 1A, 1B; BUS 14, 104; CIM 1; ECON 2, 4; MATH (3A or 11).

For further details regarding this program, refer to the CSU Fullerton catalog and ASSIST at [www.assist.org](http://www.assist.org)

**Bachelor of Arts in International Business**

*Lower-division Core Requirements* (see Business Administration); and intermediate competency in one foreign language (level 3) in either Chinese, French, German, Japanese, Portuguese, or Spanish is prerequisite to a selected upper-division concentration.

All courses for the major must be completed with a grade of "C" or better. The credit/no credit option may not be used for courses in the major. For further details regarding this program, refer to the CSU Fullerton catalog and ASSIST at [www.assist.org](http://www.assist.org)

**CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Science in Business Administration**

This is an impacted program. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

Options at the upper-division level in Business Administration include: Accountancy; Finance; Human Resources Management; International Business; Management; Management Information Systems; Marketing; Operations Management.

*Required Lower-division Preparation:* ACCT 1A; BUS 12; CIM 1; ECON 2, 4; MATH 9 or 10 (preferred), 11; PHIL (12 or 15) (**Note:** Accountancy majors must take PHIL 15, and MIS majors must take PHIL 12).

**ADD for the International Business Option:** Foreign Language preparation required is two years (four semesters) at the baccalaureate level in one of the following languages: Chinese, French, German, Italian, Japanese, Russian, or Spanish. The choice of language will determine the country or geographic area about which the student must study at the upper-division level after transfer. Refer to the CSULB catalog for additional information.

CSU General Education requirements: Refer to the introduction to this section of the catalog for information regarding certification of general education requirements for the California State University.

**CALIFORNIA POLYTECHNIC STATE UNIVERSITY, POMONA****Bachelor of Science in Business Administration**

*(Options in Accounting; Computer Information Systems; eBusiness; Finance, Real Estate, and Law; International Business; Management & Human Resources; Marketing Management; Technology & Operations Management.)*

*Lower-division Core Requirements for all Concentrations:* ACCT 1A, 1B; BUS 14; CIM (1 or 10); ECON 2, 4; MATH 10.

**ADD** for Accounting Concentration: ENG 1B; MATH 11.

**ADD** for Computer Information Systems Concentration: CIM 6A, 7A.

**ADD** for Finance, Real Estate & Law Concentration: ENG 1B; MATH 11; RE 170.

**ADD** for Marketing Management Concentration: PSYC 1.

Refer to ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

CSU General Education requirements: Refer to the introduction to this section of the catalog for information regarding certification of general education requirements for the California State University.

**CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO****Bachelor of Science in Business Administration**

*Concentrations are offered at the upper-division level in: Accounting; Financial Management; Managing People & Technology; \*Information Systems; Marketing Management; Entrepreneurship & Small Business; and International Business Management.*

*\*Lower-division Major courses:* ACCT 1A, 1B; BUS (12 or 14).

*Lower-division Support Courses:* ECON 2, 4; MATH 10, 11; Recommended: (CIM 1 or CS 1B); and a college-level foreign language (Per Cal Poly SLO at least college-level Foreign Language 1).

**\*ADD** for Information Systems Concentration: (CS 1B or CS 4A) or CIM 7A.

Refer to ASSIST at [www.assist.org](http://www.assist.org) and Cal Poly San Luis Obispo's website for "Transfer Selection Criteria" at [www.ess.calpoly.edu/\\_admiss/undergrad/index.htm](http://www.ess.calpoly.edu/_admiss/undergrad/index.htm)

General Education and Breadth: See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog.

**CALIFORNIA STATE UNIVERSITY, SAN MARCOS****Bachelor of Science in Business Administration**

This program is impacted. Refer to ASSIST at [www.assist.org](http://www.assist.org) and the following CSUSM website for impaction guidelines: [www.csusm.edu/impactioncba](http://www.csusm.edu/impactioncba)

*Required Lower-division Preparation:* ACCT 1A, 1B; BUS 12, 104; ECON 2, 4; MATH 11; PSYC 1 or SOC 1.

**NOTE:** CIM 1 is recommended to meet CSUSM's College of Business Administration computer competency requirement.

**CHAPMAN UNIVERSITY****Bachelor of Science in Business Administration, or Accounting**

*Required Lower-division Preparation:* ACCT 1A, 1B; BUS (12 or 14), 104; ECON 2, 4; MATH (2 or 7 or 8), 10, 11; PHIL 15; (SP 1 or BUS 102).

*General Education and Common Requirements:* Chapman University accepts either CSU G.E. Certification or IGETC Certification. Students are advised to consult with a Saddleback College counselor regarding additional coursework that can be completed prior to transfer in fulfillment of Chapman University's Common Requirements in quantitative reasoning, foreign language, world cultures and human diversity.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Science in Business Administration (majors)**

Majors offered are: Accounting (B.S.), Finance (B.S.), Financial Services (B.S.), Hospitality & Tourism Management (B.S.), Information Systems (B.S.), #International Business (B.A.), Management (B.S.), Marketing (B.S.), and Real Estate (B.S.).

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for GPA requirements and further details regarding these impacted programs.

*Required Lower-division Preparation for All Majors:*

ACCT 1A, 1B  
BUS (14 and 104\*)  
CIM (1 or 10)  
ECON (2 and 4)  
MATH (3A\*\* or 11\*\* and 10)

\*BUS 104 is not required for Accounting or International Business majors.

\*\*MATH 3A or 11 not required for International Business majors.

**#International Business** major is designated as an impacted program and specific regulations related to admissions are imposed. Students are advised to complete lower-division equivalencies for the foreign language and regional/cultural studies emphases portions of this major at Saddleback College. For details and course requirements, refer to ASSIST at [www.assist.org](http://www.assist.org) and the SDSU catalog.

General Education Requirement: Refer to the introduction to this section of the catalog for information regarding certification of General Education requirements for the California State University.

**UNIVERSITY OF CALIFORNIA, BERKELEY****Bachelor of Science in Business Administration**

*Minimum eligibility requirements for admission:* 1) Complete all prerequisite courses listed below for letter grades; 2) Complete at least seven of the nine Haas School of Business G.E. breadth requirement courses; 3) Complete the foreign language requirement; 4) Complete at least 60 UC-transferable semester units; 5) Achieve at least a 3.9 GPA overall (or higher) to be competitive.

**Note:** All of the required courses must be completed by the end of the spring term prior to starting at the Haas School of Business. Admissions applications are for fall semesters only and must be filed during the initial UC application filing period.

*Lower-division Prerequisites:*

*Business:* BUS 1

*Computer Science:* One course from: CIM (1 or 10) or CS 1A

*Economics:* ECON 2, 4

*English:* ENG 1A, 1B, 25; and one UC-transferable writing or literature course (see a counselor for course selection).

*Math:* MATH 3A required (UCB also recommends completion of MATH 3B prior to transfer.)

*Statistics:* MATH 10

General Education Breadth Requirements: IGETC does NOT satisfy G.E. breadth requirements for this major. There are specific G.E. breadth course requirements in the following categories: Arts and Humanities, Biological Sciences, International Studies, Physical Sciences; Social and Behavioral Sciences; and a Foreign Language requirement.

Students are urged to contact a Saddleback College counselor, and refer to UC Berkeley's Haas School of Business website at [haas.berkeley.edu/Undergrad](http://haas.berkeley.edu/Undergrad) for further details, as well as ASSIST at [www.assist.org](http://www.assist.org)

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in Business Administration**

UC Irvine will begin accepting applications for this new major in Fall 2010. Applications with the highest grades overall (min GPA 3.0) and who successfully complete calculus (Math 3A & 3B) and lower division economics (ECON 2 & 4) will be given preference for admission. Additional courses in accounting and statistics are required. Articulation of accounting and statistics is pending. Check ASSIST ([www.assist.org](http://www.assist.org)) for the latest information.

**UNIVERSITY OF CALIFORNIA, RIVERSIDE****Bachelor of Science in Business Administration**

*Lower-division Preparation:* ACCT 1A; BUS 1; CIM 1 or CS 1A; ECON 2, 4; MATH 8 and 11 or 3A, 10.

Per UCR, transfer students must complete all IGETC requirements and at least 7 of the 10 lower-division major requirements listed with a minimum 2.5 GPA in all UC transferable coursework in order to be admitted directly into this major. Refer to the UCR catalog and ASSIST at [www.assist.org](http://www.assist.org) for details.

**UNIVERSITY OF SOUTHERN CALIFORNIA****Bachelor of Science in Business Administration**

*\*Required Lower-division Courses:* ECON 2, 4; ENG 1A, 1B; MATH (3A\*\* or 11\*\*).

Advisory: If no prior computer coursework has been completed, CIM 1 is recommended.

\*In addition, students who successfully complete Saddleback's ACCT 1A and 1B with a grade of "B" or better will be allowed to enroll in USC's BUAD 305x rather than BUAD 250AB after transfer. Contact USC's Marshall School of Business-Office of Undergraduate Admissions at (213) 740-8885 or their website at [www.marshall.usc.edu](http://www.marshall.usc.edu) for more information.

\*\*The prerequisite for Saddleback's MATH 3A is MATH 2. The prerequisite for Saddleback's MATH 11 is MATH 8.

Please refer to the USC catalog for further details pertaining to program requirements, and the "Transferring to USC" booklet for general education and prerequisite information (available in the Counseling Services office), or online at [www.usc.edu/transferring](http://www.usc.edu/transferring)

## Chemistry

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Chemistry

The Bachelor of Science Degree in Chemistry is recommended for students planning to go directly into professional chemistry and for those who plan to do graduate work in physical, analytical, organic, or inorganic chemistry.

*Required Courses Include:* CHEM (1A & 1B), (12A & 12B); MATH 3A, 3B, 3C, (24 & 26); PHYS 4A, 4B, 4C.

#### Bachelor of Arts in Chemistry

The Bachelor of Arts in Chemistry is offered for students who are planning careers which require a sound background in fundamental chemistry, but not at the depth of the Bachelor of Science degree, and is particularly suited for those who plan to go into areas such as secondary education, technical sales, food processing, chemical patent law, and forensic sciences.

*Required Courses Include:* CHEM 1A, 1B, (12A & 12B); MATH 3A, 3B; PHYS 2A, 2B.

Refer to the CSU Fullerton catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding both degree programs listed above.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Chemistry

*Lower-division Requirements:* CHEM 1A, 1B; PHYS 4A, 4B, 4C; MATH 3A, 3B, 3C.

Per CSULB, candidates for this program are advised to acquire competence in reading scientific German, French, Russian, Chinese, or Japanese.

#### Bachelor of Arts in Chemistry

*Lower-division Requirements:* CHEM 1A, 1B; PHYS (2A and 2B) or (4A and 4B); MATH 3A, 3B.

#### Bachelor of Science in Biochemistry

*Lower-division Requirements:* CHEM 1A, 1B; BIO 3A, 3B, 3C; MATH 3A, 3B; PHYS (2A and 2B) or (4A and 4B).

Refer to the CSU general education certification requirements in the introduction to this section of the catalog. Also refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Science in Chemistry (Applied Arts & Sciences) and Certificate of the American Chemical Society

*Lower-division Requirements:* CHEM 1A, 1B, 12A; MATH 3A, 3B, 3C; PHYS 4A, 4B.

#### \*Bachelor of Arts in Chemistry (Liberal Arts & Sciences) and Certificate of the American Chemical Society

*Lower-division Requirements:* CHEM 1A, 1B, 12A; MATH 3A, 3B, 3C; PHYS 4A, 4B.

*\*Foreign Language Requirement for the B.A. in Chemistry:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

#### #Bachelor of Arts in Chemistry (Liberal Arts & Sciences)

*Lower-division Requirements:* BIO (3A & 3B & 3C); CHEM 1A, 1B, 12A; MATH 3A, 3B, 3C; PHYS 4A, 4B.

*#Foreign Language Requirement for the B.A. in Chemistry:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

*#Minor:* Per SDSU catalog, a minor in biology is expected for pre-professional students with this major.

Refer to the CSU general education certification requirements in the introduction to this section of the catalog. Also refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Science in Chemistry

*\*Lower-division Requirements:* CHEM (1A & 1B), (12A & 12B); MATH (3A & 3B & 3C); PHYS (4A and 4B).

*\*Students must take UCI's CHEM 5, 151 and 151L after transfer.*

Much of the important chemical literature is printed in foreign languages, principally German, Russian, Japanese, and French. Reading competence in one or more of these languages is recommended by UCI. Students are expected to have the ability to express ideas in written English with clarity and precision. Refer to the UCI catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding this major.

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

#### Bachelor of Science in Chemistry

*Required Lower-division Courses:* CHEM (1A & 1B), (12A & 12B); MATH 3A, 3B, 3C, 24; PHYS (4A & 4B & 4C).

Refer to the UCLA catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding this major.

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

#### Bachelor of Science in Chemistry/Biochemistry: Chemistry

*Required Lower-division Courses:* CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C.

Refer to the UCSD catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding this major.

### UNIVERSITY OF SOUTHERN CALIFORNIA

#### Bachelor of Science in Chemistry

*Required Lower-division Courses:* CHEM 1A, 1B; MATH 3A, 3B; PHYS 4A, 4B, 4C.

#### Bachelor of Arts in Chemistry

*Required Lower-division Courses:* CHEM 1A, 1B; MATH 3A, 3B; PHYS 4A, 4B, 4C.

Please refer to the USC catalog for further details pertaining to program and foreign language requirements for this major, and the "Transferring to USC" booklet for general education and prerequisite information (available in the Counseling Services office), or online at [www.usc.edu/transferring](http://www.usc.edu/transferring)

## Child Development and Human Development

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Child and Adolescent Development

The Child Development major is an upper-division degree program at CSUF. Transfer students can apply a maximum of 12 units of lower-division coursework toward the major, but no upper-division credit is given for any lower-division coursework. Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding program requirements.

*Lower-division Preparation:* CDES 118; SOC 15 (CDES/PSYC 7 recommended). **Note:** Application of transfer units to major requirements for this program must be approved by a CSUF academic adviser in the Department of Child and Adolescent Studies, and a grade of "C" or better is required for all courses applied to the major.

Students planning to transfer to CSUF's Child Development program are advised to complete the CSU General Education certification pattern including courses in general biology, general sociology, and general psychology.

## CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

### Bachelor of Science in Child Development

*Lower-division Major Courses:* CDES/PSYC 7.

*Lower-division Support Courses:* FN 50; PSYC 1. MATH 10 recommended.

Refer to Cal Poly SLO's catalog and ASSIST at [www.assist.org](http://www.assist.org) regarding this program.

General Education and Breadth: See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog.

## SAN DIEGO STATE UNIVERSITY

### Bachelor of Science in Applied Arts and Sciences with a Major in Child Development

*Lower-division Preparation for the Major:* BIO 20; CDES 120; MATH 10; PSYC 1, 7; SOC 1, 10, 15 or CDES 105.

Students are advised to refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding GPA and selection criteria for this impacted major.

General Education: Refer to CSU General Education certification requirements in the introduction to this section of the catalog.

## Chiropractic (pre-Chiropractic)

### CLEVELAND CHIROPRACTIC COLLEGE

*Lower-division Preparation:* BIO 11, 12; CHEM 1A, 1B, 12A, 12B; MATH (7 or 8); PHYS (2A and 2B).

*Recommended:* ECON 2; ENG 1A, 1B; HIST (16 and 17); PSYC 1; SOC 1; SP 1.

For details regarding program requirements and selection criteria, refer to the Cleveland Chiropractic College website at [www.cleveland.edu](http://www.cleveland.edu)

## SOUTHERN CALIFORNIA UNIVERSITY OF HEALTH SCIENCES—LOS ANGELES COLLEGE OF CHIROPRACTIC

Applicants for admission must have completed a minimum of 90 semester units leading to a baccalaureate degree in the arts or sciences with a minimum cumulative GPA of 2.50 or higher on a 4.0 scale. These requirements may increase annually, culminating to a bachelor's degree and a minimum GPA of 3.00. Science courses must be taken in sequential order and must include laboratories. Thirty (30) semester units of upper-division work will be required after transfer. The following course prerequisites must be completed with a grade of "C" or better:

*Lower-division Preparation:* ENG (1A and 1B) or SP 1; a minimum of 15 semester units in social sciences/humanities selected from baccalaureate-level courses; CHEM 1A, 1B, 12A, 12B; PHYS (2A and 2B) or (4A and 4B); PSYC 1; and select two courses from: BIO 3A, 3C, 11, 12, 15.

Students are advised to contact the Los Angeles College of Chiropractic at the Southern California University of Health Sciences for further information regarding this program (562) 947-8755 or (800) 221-5222, and website: [www.scuhs.edu](http://www.scuhs.edu)

## Communications

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Communications\*

*Core (required for all programs listed below):* (JRN 1 or CA 1).

Advertising Concentration: (see core requirement)

Entertainment Studies Concentration: **ADD:** JRN 2

Journalism Concentration (see emphases below):

*Broadcast Journalism Emphasis:* **ADD:** JRN 2; CA 128

*Print Journalism Emphasis:* **ADD:** JRN 2; CA 128

*Visual Journalism Emphasis:* **ADD:** JRN 2

Photo Communication Concentration: **ADD:** JRN 2, PHOT 50

Public Relations Concentration: **ADD:** JRN 2

General education requirements can be satisfied by following the CSU General Education certification pattern outlined in the introduction to this section of the catalog. CA/JRN 1 cannot be double-counted for general education.

\*The Accrediting Council on Education in Journalism and Mass Communication has set forth strict guidelines for majors in communications. It is imperative that students check the CSU Fullerton catalog under "Department of Communications," Bachelor of Arts in Communications, for additional program requirements.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Communication Studies (Options)

*Lower-division Preparation:*

*Option in General Speech:* SP 1 or (SP 35 or TA 35), 3, 5.

*Option in Interpersonal & Organizational Communication:* SP 1, 3 or (SP 35 or TA 35), 5.

*Option in Rhetorical Studies:* (CA 1 or JRN 1); SP 1, 3, (SP 35 or TA 35).

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

#### Bachelor of Arts in Journalism

*Lower-division Preparation:* JRN 1, 2.

Although cross-referenced with CA 1, students must take the Journalism

Per the CSULB catalog, all students entering CSULB journalism production courses must be familiar with at least one established word-processing program at the level of at least 40 words per minute. CSULB journalism majors will be required to have a minor which is selected in consultation with a CSULB journalism adviser after transfer. Students interested in this program should contact CSULB's Journalism Department at (562) 985-4981 for additional information. Also refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org)

General Education: Refer to CSU G.E. certification requirements.

### SAN DIEGO STATE UNIVERSITY

The following majors are impacted. Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for selection criteria and GPA requirements.

#### Bachelor of Arts Degree - Communication, Emphasis in Advertising or Public Relations

*Lower-division Preparation (for both Advertising and Public Relations Emphases):* CA 1 or JRN 1; ECON 2; JRN 2; PS 1, 4

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

### Bachelor of Arts Degree - Journalism

*Lower-division Preparation:* (CA 1 or JRN 1); ECON 2; JRN 2; PS 1, 4.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

General Education: Refer to CSU G.E. certification requirements.

### ALSO SEE RADIO/TELEVISION/FILM

## Computer Science

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Computer Science

*Lower-division Core:* CS 1B, 2B; CIM 2A.

*Requirements in Related Fields:*

*Mathematics Requirement:* MATH 3A, 3B.

*Additional Math Requirements for "Scientific Computing Track":* MATH 3C, 24, 26.

*Physical Science:* Select one of the following course combinations: PHYS (4A and 4B); or CHEM (1A and 1B); or GEOL (1 and 2).

*Biological Science:* BIO 20.

CSU General Education requirements are listed in the introduction to this section of the catalog. For further information regarding this program, students are advised to refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org)

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Computer Science

*Lower-division Preparation:* CS 1B, 2B, CS 4A or CIM 7A; MATH 3A, 3B\*, 26; PHYS 4A, 4B; and four units of CSULB advisor-approved courses in science or with a strong emphasis in quantitative methods or take after transfer. \*Note: MATH 3B is prerequisite for MATH 26.

Recommended: (CS 1A and 1C).

#### Bachelor of Science in Computer Engineering

*Lower-division Preparation:* CS 1B, 2B, 4A or CIM 7A; MATH 3A; PHYS 4A, 4B.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

General Education: Refer to CSU G.E. certification requirements.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Science in Applied Arts and Sciences - Computer Science

*Lower-division Preparation:* CS 1B, 2B, 3A, 3B; MATH 3A, 3B, 10, 26; and select one sequence from the following: PHYS 4A, 4B; or CHEM (1A and 1B); or \*BIO (3A-3B-3C). (\*BIO sequence/courses must be completed prior to transfer if selected).

Students should refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for information on selection criteria and GPA requirements for this major.

General Education: Refer to CSU General Education certification requirements.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Science - Computer Science

*Lower-division Requirements:* CS 1A, 2B, 4A, 4B (students must complete all four of the preceding courses to receive credit for UCI's I&C SCI 21-22 sequence); CS (3A and 3B) (required to receive credit for UCI's I&C SCI 51); and MATH 3A, 3B, 26; PHIL 12; and select one science sequence from: BIO (3A and 3B) or CHEM (1A and 1B) or PHYS (4A and 4B) or PHYS (4A and 4C).

#### Bachelor of Science - Information and Computer Science

*Lower-division Requirements:* CS 1A, 2B, 4A, 4B (students must complete all four of the preceding courses to receive credit for UCI's I&C SCI 21-22 sequence); CS 3A and 3B (required to receive credit for UCI's I&C SCI 51); and MATH 3A, 3B, 26.

Preference is given to junior-level applicants with the highest grades overall. Transfer students entering this major will be expected to have knowledge of Java. Lower-division requirements listed above should be completed prior to transfer.

Refer to the UCI catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding both majors and UCI G.E. breadth requirements.

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

Per UCSD, Computer Science and Engineering (CSE) majors are subject to special screening criteria. For details regarding program and GPA requirements, refer to ASSIST at [www.assist.org](http://www.assist.org) and the UCSD catalog.

#### Bachelor of Arts in CSE: Computer Science

*Lower-division Preparation:* CS 2B, 3A, 3B, 4A, 4B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

#### Bachelor of Science in CSE: Computer Science

*Lower-division Preparation:* CS 2B, 3A, 3B, 4A, 4B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C; and select BIO (3A and 3B) or (BIO 20 or CHEM 1A).

#### Bachelor of Science in CSE: Computer Engineering

*Lower-division Preparation:* CS 2B, 3A, 3B, 4A, 4B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

## Criminal Justice

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Criminal Justice

There are no lower-division courses required in the major. CSU Fullerton's Criminal Justice curriculum can accommodate any/all transferable lower-division coursework of a related nature (e.g., administration of justice, police science, etc.) as CSUF's Criminal Justice offerings are exclusively upper-division. Refer to the CSUF Division of Politics, Administration, & Justice website at <http://hss.fullerton.edu/polisci> and the CSUF catalog for additional information regarding this program.

Students are advised to complete CSU G.E. certification requirements prior to transfer.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Criminal Justice

*Lower-division Preparation for the Major:* HS (37 or 119).

Students intending to transfer from a community college to CSULB for the B.S. in Criminal Justice program are advised to complete general education requirements prior to transfer. For additional information regarding this impacted program and requirements, refer to ASSIST at [www.assist.org](http://www.assist.org), the CSULB catalog, and contact CSULB's Criminal Justice Department at (562) 985-4738.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Science—Criminal Justice Administration Major**

*Preparation for the Major:* HS 119; MATH 10; PS 1; SOC 1 and 2.

The Criminal Justice Administration major is designated as an impacted program, and specific regulations related to admissions are imposed. Students are advised to refer to the SDSU catalog and website at [www.sdsu.edu](http://www.sdsu.edu), ASSIST at [www.assist.org](http://www.assist.org) and contact SDSU's department of Criminal Justice & Administration in the College of Professional Studies & Fine Arts at (619) 594-6224 for more information on specific regulations and admissions criteria. General education requirements should be completed prior to transfer.

**Dance****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Arts in Dance**

*Lower-division Requirements:* DANC 53\*, 55\* or 56\*.

*Electives:* With the approval of a CSUF departmental advisor students are to complete a minimum of eight elective units, including at least one course from each category below:

*Category I:* DANC 59\*, 61\*, 62\*; Must have 2 units each: (MUS 20 or TA 1 or 20).

*Category II:* TA 42.

\*Each course listed must be taken for at least 2 units. Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this program.

General Education: Refer to the general education certification requirements listed in the introduction to this section of the catalog.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Arts–Dance (Degree in Liberal Arts & Sciences)**

*Lower-division Preparation for both programs:* DANC 10, 64; and BIO 11. DANC (9 and 11) recommended.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Entrance and placement auditions are required. . Students are advised to consult with an SDSU program advisor in the School of Music and Dance. Refer to the SDSU catalog for details regarding selection and admissions requirements for these programs.

General Education: Refer to CSU G.E. certification requirements.

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts or Bachelor of Fine Arts in Dance**

The Department of Dance at UC Irvine offers two degrees: the Bachelor of Arts in Dance (B.A.) and the Bachelor of Fine Arts in Dance (B.F.A.). The B.A. program provides a broad background in dance theory and practice. The B.F.A. program allows students to specialize in either choreography or performance.

*Dance Majors:* All students are required to audition for enrollment in the major and for appropriate placement level in ballet, jazz, and modern dance performance. This placement level determines the minimum number of years it will take to complete degree requirements. It is strongly recommended that students have dance technique experience in preparation for placement auditions.

*Recommended Lower-division Preparation:* DANC 52, 55, (58 or 59) (subject to audition)

*Lower-division Requirements for Both Degree Programs:* DANC 9, 63 and 64 (DANC 64 =one quarter towards UCI's 90A-B-C, Dance History sequence); and one course selected from: DANC (60 or 61 or 62).

*ADD for BFA Choreography & Performance Specialization:* TA 1, 41; and four units of UC-transferable coursework from: Art History, Drama, Music or Studio Art not already required for this major.

*ADD for BFA Choreography Specialization:* TA 1, 41; and four units of UC-transferable coursework from: Art History, Drama, Music or Studio Art not already required for this major.

Information regarding UCI G.E. breadth requirements, or the IGETC, are available in Saddleback's Counseling Services office or ASSIST at [www.assist.org](http://www.assist.org)

**Dental Hygiene****LOMA LINDA UNIVERSITY**

Dental Hygiene Pre-Entrance Curriculum Requirements (Meet LLU) General Education B.S. Requirements:

SCIENTIFIC INQUIRY & ANALYSIS:

*Natural Sciences* (minimum 15 semester units): BIO 11, 12, 15; CHEM 108; and one transferable math course.

*Social Sciences* (minimum 8 semester units, which must include two areas): ANTH 2 and SOC 1 (required); and select one transferable course from the following areas: political science, psychology, anthropology, economics, geography.

SPIRITUAL & CULTURAL HERITAGE:

*Cultural:* (minimum 14 semester units, which must include two areas): Select any transferable course from the following areas: history/civilization, fine arts (theory coursework), literature, philosophy/ethics, foreign language.

*Religion:* (minimum 3 semester units): Recommended to be taken after transfer.

*COMMUNICATION SKILLS:* (minimum of 9 semester units) ENG (1A and 1B) (required); select one course: SP (1 or 5).

*HEALTH & WELLNESS:* Select one course from: FN 50, 161, or HLTH 1; and select two PE activity courses.

*ELECTIVES:* Select electives to complete 64-unit entrance requirements

Students are advised to contact Loma Linda University School of Dentistry at (909) 558-4621 for further information regarding admissions requirements for this program.

**Note:** Information is available in the Saddleback College Counseling Services office regarding lower-division preparation for area Community College Dental Hygiene programs (e.g., Cerritos College and Cypress College).

**Dentistry (Pre-Dental)**

There are five dental schools in California and admissions requirements vary and are very competitive: *UC Los Angeles; UC San Francisco; University of Southern California; Loma Linda University; and University of the Pacific.* High scholastic ability and manual dexterity are among the selection criteria for admission. Refer to the specific dental school catalog/bulletin and website for details regarding program and admissions requirements. Additional information on dental schools can be obtained from the American Dental Education Association website [www.adea.org](http://www.adea.org)

Candidates selected for admission to dental schools have generally completed three or four years of a rigorous pre-dental program. Students are advised to make normal progress toward a bachelor's degree. No particular major is required as long as a minimum of preparation represented by the following composite of courses is included.

*\*Recommended Lower-division Preparation:*

CHEM 1A, 1B, 12A, 12B.

\*PHYS (2A-2B) or PHYS (4A-4B-4C).

BIO 3A, 3B.

ENG 1A, 1B.

PSYC 1 and one additional psychology course; and

12 to 15 additional units in social sciences and/or humanities.

\*The physics sequences and additional social sciences or humanities courses should be selected based on requirements for the major and general education pattern for the intended transfer institution.

## Dietetics and Food Administration

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Dietetics and Food Administration

The degree program consists of three options: Food Science; Hospitality Foodservice and Hotel Management; and Nutrition and Dietetics.

*Food Science Option:* BIO 12, 15; CHEM 1A, 1B; CIM 1; ENG 1B; FN 50, 110; PHYS 2A; (PSYC 1 or SOC 1); SP 5.

*Hospitality Foodservice and Hotel Management Option:* ACCT 1A; BIO (12 or 113); CHEM (1A or 120); CIM 1; ECON 2, 4; FN 50, 110, 171; MATH 10; PHIL 15; (PSYC 1 or SOC 1); SP 5.

*Nutrition and Dietetics Option:* BIO 12, 15; CHEM 1A; CIM 1; ENG 1A, 1B; FN 50, 110, 171; PSYC 1; SOC 1; SP 5.

For more information regarding these programs, refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org)

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Science in Applied Arts and Sciences with Foods and Nutrition Major

ACCT 1A; BIO 15, 20; CHEM 108; MATH 10; PSYC 1; SOC 1. Recommended: FN 50.

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding program requirements for this impacted major.

General Education: Refer to the CSU General Education certification requirements listed in the introduction to this section of the catalog.

### SEE FAMILY AND CONSUMER SCIENCES

## Drama

### SEE THEATRE ARTS

## Economics

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Economics

All Lower-division Core Requirements must be completed with a grade of "C" or better.

*Required Lower-division Core Courses:* ACCT 1A; BUS 104; CIM 1; ECON 2, 4; (MATH 3A or 11) and (MATH 3B or ACCT 1B).

See the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding program requirements.

General Education: Refer to California State University general education requirements in this catalog.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Economics

*Required Lower-division Courses:* ACCT 1A; ECON 2, 4; MATH (3A or 11); and a minimum of two courses outside of economics from: ANTH 2; GEOG 3; HIST 62, 63; HS 100; MATH 2, 9, 3B, 3C; PS 4; PSYC 1; SOC 1.

#### Bachelor of Arts in Business Economics

*Required Lower-division Courses:* ACCT 1A; ECON 2, 4; MATH (3A or 11).

See the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding requirements for both programs.

General Education: Refer to California State University general education requirements in this catalog.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts in Liberal Arts and Sciences - Economics Major

*Lower-division Preparation:* ACCT 1A; CIM (1 or 10); ECON 2, 4; MATH 10; one course from MATH (3A or 11).

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Refer to the SDSU catalog and the ASSIST website at [www.assist.org](http://www.assist.org) for further information regarding this impacted program.

#### Bachelor of Arts in Liberal Arts and Sciences - Emphasis in International Economics

*Lower-division Preparation:* ACCT 1A; CIM (1 or 10); ECON 2, 4; MATH 10; one course from MATH (3A or 11).

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 4 or higher is required, (Examples: FR 4, GER 4, SPAN 4, at Saddleback College). *Note: This is one language level higher than required for the B.A. in Economics program listed above.*

Refer to the SDSU catalog and the ASSIST website at [www.assist.org](http://www.assist.org) for details regarding this impacted program.

General Education: Refer to California State University general education requirements in this catalog for both majors.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Economics

*Lower-division Preparation:* CIM 10 or (CIM 2A and 10) or (CS 4A and 4B); ECON 2, 4; MATH 3A, 3B, 3C, 26; and

*Two introductory social science courses from the following:* ANTH 1, 2, 3, 9; GEOG 1, 2, 3; PS 4; PSYC 1; SOC 1.

Refer to the UC Irvine catalog or ASSIST at [www.assist.org](http://www.assist.org) for further details regarding this major.

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

#### Bachelor of Arts in Economics

*\*Lower-division Preparation:* ECON 2, 4; ENG 1B; MATH 3A, 3B. Recommended: ACCT 1A, 1B, MATH 10.

\*This major is highly selective. All preparatory courses should be completed by the Spring term prior to transfer. Repetition of more than one preparation course or of any preparation course more than once will result in automatic denial of admission to the major. After transfer to UCLA students cannot change their major to Economics if they were originally admitted to another major. Refer to the UCLA catalog and ASSIST at [www.assist.org](http://www.assist.org) for details.

**UNIVERSITY OF CALIFORNIA, RIVERSIDE****Bachelor of Arts in Economics**

*Economics Major:* ECON 2, 4; MATH 3A, 3B.

**Bachelor of Arts in Business Economics**

*Lower-division Requirements:* ACCT 1A, 1B; ECON 2, 4; MATH 3A, 3B.

In addition to lower-division requirements listed above, UCR recommends completion of the Intersegmental General Education Transfer Curriculum (IGETC). Refer to the UCR catalog, and ASSIST at [www.assist.org](http://www.assist.org) for further information.

**UNIVERSITY OF CALIFORNIA, SAN DIEGO****Bachelor of Arts in Economics**

This major is designed to provide a broad understanding of resource-allocation and income-determination mechanisms. Both the development of the tools of economics analysis and their applications to contemporary problems and public policy are stressed.

*Lower-division Requirements:* ECON 2, 4; MATH 3A, 3B, 3C.

**Bachelor of Science in Economics: Management Science**

This major builds on a set of related quantitative methods for optimal allocation of scarce resources, and introduces students to the structure of these techniques and their application in both private and public enterprise.

*Lower-division Requirements:* ACCT 1A; ECON 2, 4; MATH 3A, 3B, 3C, 26.

Transfer students are strongly advised by UCSD to complete preparatory courses prior to transfer for both programs. Refer to the UCSD catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these majors.

**Education—Teaching****Elementary Education**

Education is not an acceptable undergraduate major for a California Teaching Credential. Prospective elementary teachers may elect to choose a single-subject academic major, but students will be required to take the state-approved California Subjects Examination for Teachers (CSET). The CSET is a general subject matter examination covering knowledge of language arts, mathematics, science, social science, visual and performing arts, physical education, and human development. Refer to the *Liberal Studies* major preparation in this section of the catalog for examples of appropriate courses to take for CSET preparation. Students are advised to keep in contact with a Saddleback College counselor for any updates.

**Secondary Education**

The student planning to teach at the secondary level (grades 7 through 12) should complete a major in subject matter commonly taught at the secondary level. Subject matter competency is verified by achieving a passing score on the appropriate subject matter examination, or completing a California Commission on Teacher Credentialing-approved subject matter program (major), or its equivalent.

Applications for admission to teacher education programs should be made during the first semester of the junior year. A preliminary credential authorizing service for a maximum of five years can be obtained along with the bachelor's degree and approved education courses, but a fifth year of study consisting of a minimum of 30 units beyond the bachelor's degree is required. Students are advised to see a Saddleback College counselor for further information.

Specialist credentials (e.g., early-childhood, reading, special education, administrative services, or library services), normally require completion of a valid teaching credential program or admission to a graduate-level program.

Community college teaching positions normally require the completion of the minimum of a master's degree in subject matter taught. For teaching in occupational areas, work experience can be used to waive portions of educational requirements.

Information on preparation for a career in teaching is available in Saddleback College Counseling Services office. Students are advised to confer with a Saddleback College counselor when planning coursework for transfer.

**Note:** Interested students can access the California Commission on Teacher Credentialing (CTC) website at [www.ctc.ca.gov](http://www.ctc.ca.gov) as well as contacting the Education school of the transfer institution.

**Engineering****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Science Degrees for: Civil Engineering; Electrical Engineering; Engineering/Option in Engineering Science; Mechanical Engineering**

*Math/Science Foundation Requirements for all Majors Listed:* MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C; BIO 20, CHEM 1A, 3

*Civil Engineering - ADD:* ENGR 31, 33, CHEM 1B.

*Electrical Engineering - ADD:* ENGR 33.

*Mechanical Engineering - ADD:* DR 23; ENGR 31, 33.

*Computer Engineering - ADD:* CS 1B, 2B, CIM 172, ENGR 33

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding General Education requirements and selection criteria for these programs.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Science (Majors Listed)**

*Aerospace Engineering:* CHEM 1A; ENGR 31; MATH 3A, 3B, 3C; PHYS 4A, 4B.

*Audio Engineering (Electrical Engineering Track) :* BIO 12; CS 1B, 2B, 4A or CIM 7A; ENGR 33; ET 114; MATH 3A, 3B, 3C; MUS 20; PHYS 4A.

*Chemical Engineering:* BIO 15; CHEM 1A, 1B; ENGR 31, 33; MATH 3A, 3B, 3C; PHYS 4A, 4B.

*Civil Engineering:* BIO 15 or 20; CHEM 1A; ENGR 31; MATH 3A, 3B, 3C; PHYS 4A, 4B.

*Computer Engineering:* CS 1B, 2B, 4A or CIM 7A; MATH 3A; PHYS 4A, 4B.

*Electrical Engineering:* CS 1B; ET 114; ENGR 33; MATH 3A, 3B, 3C; PHYS 4A, 4C.

*Engineering: Option in Biomedical & Clinical:* BIO 12; CHEM 1A; CS 1B; ENGR 33; ET 114; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

*Mechanical Engineering:* CHEM 1A; ENGR 31, 33; MATH 3A, 3B, 3C; PHYS 4A, 4B.

*Theme Park Engineering:* BIO 12; CHEM 1A; CS 1B; ENGR 33; ET 114; MATH 3A, 3B, 3C; PHYS 4A.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding General Education requirements and selection criteria for these programs.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Science (Engineering majors listed below)**

*Aerospace Engineering:* CHEM 1A (recommended); MATH 3A, 3B, 3C, 24; ENGR 31; PHYS 4A, 4B, 4C.

*Civil Engineering:* CHEM 1A; ENGR 31; MATH 3A, 3B, 3C, 24; PHYS 4A, 4B.

*Computer Engineering:* ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B. Recommended CS 1B, 2B, 3A, 3B.

*Electrical Engineering:* ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B. Recommended CS 1B, 3A, 3B.

*Environmental Engineering:* BIO 3A\*, 3B\*; CHEM 1A; MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C. Recommended: MATH 10

*Mechanical Engineering:* ENGR 31; MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C. Recommended: CHEM 1A.

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding General Education requirements and selection criteria for these programs.

## UNIVERSITY OF CALIFORNIA, IRVINE

### Bachelor of Science (Engineering majors listed)

*Lower-division Requirements:*

*Aerospace Engineering:* CHEM 1A and 1B; CS 1B; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

*Biomedical Engineering:* CHEM 1A and 1B; CS 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26 and 10; PHYS 4A, 4B, 4C.

*Chemical Engineering:* CHEM 1A, 1B, 12A, 12B; CS 1B; MATH 3A, 3C, 24, 26; PHYS 4A, 4B.

*Civil Engineering:* CHEM 1A; CS 1B; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A; select from (CHEM 1A and 1B) or PHYS 4B; and select one course from: BIO 3B or PHYS 4C or (CHEM 1A and 1B) combination if not taken to fulfill preceding requirement.

*Computer Engineering:* CS 1B, 1C, 3A; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

*Electrical Engineering:* CHEM 1A; CS 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

*Environmental Engineering:* BIO 3B; CHEM 1A, 1B, 12A; CS 1B; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A.

*Mechanical Engineering:* CHEM 1A, 1B; CS 1B; ENGR 31, 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Per UCI, preference will be given to junior-level applicants with the highest grades overall. Students are advised to complete the lower-division degree requirements prior to transfer.

Additional information regarding program requirements and UCI G.E. breadth requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

## UNIVERSITY OF CALIFORNIA, SAN DIEGO

### Bachelor of Science (Engineering majors examples)

*Lower-division Requirements:*

*Computer Engineering [ECE]:* CS 2B, 3A, 3B, 4A, 4B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

*Engineering Science [MAE]:* CHEM 1A, 1B; CS 1B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

*Structural Engineering:* CHEM 1A; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Refer to the UCSD catalog and ASSIST at [www.assist.org](http://www.assist.org) for details regarding General Education requirements and selection criteria for programs listed above.

## English

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts English

\*ENG 1A and a maximum of 12 units from the following courses may be selected. At least 30 units must be upper-division coursework after transfer to fulfill the 42 units required for the major. Students are urged to consult with a faculty advisor in the Department of English and Comparative Literature at CSUF.

\**Lower-division Preparation:* At least six units from: ENG 15A, 15B, 17A, 17B, or other transferable literature courses selected with CSU Fullerton advisor approval (maximum 12 units).

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding this program.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in English

Options include Creative Writing; English Education/Single Subject Teaching Credential; Literature; and Rhetoric and Composition.

*Creative Writing Option:* ENG 4 or 5, 17A, 17B.

*English Education/Single Subject Teaching Credential Option:* ENG (15A or 15B), (17A or 17B); SP 1; TA 20; and select one course from: ENG 21B, 27B, 44, TA (25 or 26). Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for information on the available emphases for this program and other course requirements.

*Literature Option:* ENG 15A, 15B, 17A, 17B.

*Rhetoric and Composition Option:* Select two courses from: ENG 15A, 15B, 17A, 17B. Recommended: ENG 1B

**CSULB recommends competency in a foreign language for all options, especially if graduate work is contemplated. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for details regarding these programs.**

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts English

This is an impacted major. Refer to the SDSU catalog, and the ASSIST website at [www.assist.org](http://www.assist.org) for selection criteria and GPA requirements.

*Lower-division Preparation for the Major:* ENG 1B, (15A or 15B), 17A, 17B; and one course from: ENG 3, 4, 5, 21A, 21B, 25.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

General Education: For CSU Fullerton, CSU Long Beach, or San Diego State University, complete CSU General Education certification prior to transfer. Additional recommended electives for these programs include additional courses in writing, literature, and history.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in English

**Note:** In fulfillment of the requirements below, a single course may be used only once.

*Lower-division Requirements for the Major:* ENG (15A-15B) or (17A-17B) or (21A-21B) or select two courses from: ENG 25, 27A, 27B; **AND**

Two years in a single language other than English at university level (or equivalent): Arabic, French, German, Italian, Persian, or Spanish 3-4; **AND**

*School Core Requirements:*

Complete ENG (1A and 1B) and HUM (10A and 10B); **OR** ENG (1A and 1B) and two courses from HUM 1, 2, 3; **OR**

Select at least one course from each of the following areas for a total of at least four semester courses:

*Writing:* ENG 1A, 1B

*English Literature:* ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B

*History:* HIST 4, 5, 7, 8, 16, 17, 19, 62, 63

*Philosophy:* PHIL 1, 15

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

## Family and Consumer Sciences

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Family and Consumer Sciences

*Child Development and Family Studies Option:* ANTH 2 or SOC 1; BIO 113, 11 and 12; FN 50; CDES (110 or 123), 111; PSYC 1, 7; and 9 units of CSULB advisor approved electives.

*Consumer Affairs Option:* ACCT 1A; ECON 2, 4; ENG 1B; MATH 10; PSYC 1; SOC 1; and 9 units of CSULB advisor approved electives.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding these programs and additional options.

Refer also to the heading Dietetics and Food Administration and Fashion Merchandising in this section of the catalog for information on additional programs offered at CSULB, as well as the section outlining CSU general education requirements.

## Fashion Merchandising

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Family and Consumer Sciences with the following options:

Fashion Merchandising Option:

*Lower-division Major Requirements:* ACCT 1A; (ART 25 or HIST 62); (CHEM 1A or 120); CIM 1; ECON 2, 4; FASH 31, 101, 110, 140, 154 or GD 148; PSYC 1; (SOC 1 or SOC 2 or ANTH 2); and 9 units of CSULB advisor approved electives.

Textiles and Clothing Option:

*Lower-division Major Requirements:* (Art 25 or HIST 62); (CHEM 1A or 120); ECON 2, 4; FASH 31, 101, 110, 130, 140, 154 or GD 148; PSYC 1; (SOC 1 or SOC 2 or ANTH 2).

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

## Foreign Languages— French, German, or Spanish

### CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF)+ CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB)++

#### Bachelor of Arts in French, German, or Spanish

Major Language 1 or 1A and 1B, 2, 3, 4 (or equivalent)

French, German, or Spanish majors: FR 10, GER 10, or SPAN 10, respectively.

+CSUF Notes: Spanish majors at CSUF: **ADD** SPAN 6. Each course counted toward the major must be completed with a grade of "C" or higher.

++CSULB Notes: For the French major, CSULB has a second language requirement, which is two college years or equivalent of a second foreign language (not English). HIST (62 and 63) are recommended. For the Spanish major, at least one year of a second foreign language at the college level is required for all options. CSULB offers four unique options with the Spanish major. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding program requirements.

For additional information regarding these majors, refer to the CSUF or CSULB catalogs and ASSIST at [www.assist.org](http://www.assist.org)

General Education: California State University general education requirements are listed in the introduction to this section of the catalog.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in French, German, or Spanish

**Note:** In fulfillment of the requirements below, a single course may be used only once.

*Lower-division Requirements for the Major:* Select one foreign language sequence from: FR (1-4); GER (1-4); SPAN (1-4); **AND**

*School Core Requirements:*

Complete ENG (1A and 1B) and HUM (10A and 10B); **OR** ENG (1A and 1B) and 2 courses from HUM 1, 2, 3; **OR**

Select at least one course from each of the following areas for a total of at least four semester courses:

*Writing:* ENG 1A, 1B

*English Literature:* ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B

*History:* HIST 4, 5, 7, 8, 16, 17, 19, 62, 63

*Philosophy:* PHIL 1, 15

Refer to the UCI catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

## Geography

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Geography

*Lower-division Preparation:* GEOG 1, 2, 3. Recommended: GEOG 1L.

Also, refer to the CSUF catalog, and ASSIST at [www.assist.org](http://www.assist.org)

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Geography

*Lower-division Preparation:* GEOG 1 and 2 or 3. Plus two additional lower division courses to be taken after transfer. Recommended: GEOG 1L.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org)

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts in Geography-General Geography (Liberal Arts & Sciences)

*Lower-division Preparation:* GEOG 1 and 1L, 2.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding program requirements.

## Geology

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Geology

Major: GEOL 1, 2

*Related Fields:* (BIO 20 or 3B); CHEM 1A, 1B; MATH 3A, 3B; (PHYS 4A, 4B) OR (PHYS 2A, 2B) One additional course: MATH 3C, 24, 26; PHYS 4C

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Geology

Five emphases are offered: General Geology, Petroleum Geology, Stratigraphy/Sedimentology, Geochemistry/Mineralogy-Petrology, and Structural Geology/Tectonics.

*Lower-division Core Requirements for All Emphases:* BIO 20; CHEM 1A, 1B; GEOL 1, 2; MATH 3A, 3B; PHYS 4A, 4B.

**ADD** course(s) to the core for the following emphases:

*Petroleum Geology:* MATH 3C.

*Geochemistry/Mineralogy-Petrology:* MATH 3C.

*Structural Geology/Tectonics:* MATH 3C.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

General Education: California State University general education requirements are listed in the introduction to this section of the catalog.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Science - Geological Sciences

Lower-division Preparation for Options/Emphases:

*Engineering Geology Emphasis:* BIO 20; CHEM 1A, 1B; ENGR 31; GEOL (1 or 20 or MS 20), 2, 6; MATH 3A, 3B, 3C, 10; PHYS 4A, 4B, 4C.

*General Geology Option:* BIO 20; CHEM 1A, 1B; GEOL (1 or 20 or MS 20), 2, 6; MATH 3A, 3B; PHYS 4A, 4B.

*Geochemistry Emphasis:* BIO 20; CHEM 1A, 1B, 12A; GEOL (1 or 20 or MS 20), 6; MATH 3A, 3B, 3C, 10; PHYS 4A, 4B, 4C.

*Geophysics Emphasis:* BIO 20; CHEM 1A, 1B; GEOL (1 or 20 or MS 20), 6; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

*Hydrogeology Emphasis:* BIO 20; CHEM 1A, 1B; GEOL (1 or 20 or MS 20), 2, 6; MATH 3A, 3B, (3C or CHEM 12A), 10; PHYS 4A, 4B, 4C.

*Marine Geology Emphasis:* BIO 20; CHEM 1A, 1B; GEOL (1 or 20 or MS 20), 2, 6; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C. **Note:** A foreign language is recommended for this emphasis. Refer to the SDSU catalog for details.

*Paleontology Emphasis:* BIO 3A, 3B, 3C; CHEM 1A, 1B; GEOL (1 or 20 or MS 20), 2, 6; MATH 3A; PHYS (2A and 2B).

Refer to the SDSU catalog, and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding these programs.

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

#### Bachelor of Science in Earth Science/Geology

*Lower-division Requirements:* BIO 3A, 3B; CHEM 1A, 1B; MATH 3A, 3B, 3C, 24; PHYS (4A-4B-4C) sequence.

Refer to the UCSD catalog, and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

## Health Science

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Health Science

*Lower-division Requirements:* BIO 20, 113; CHEM 108; HLTH 1; PSYC 1; SP 1.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Health Science

*Lower-division Preparation for Options:*

*Radiation Therapy Option—Prerequisites:* BIO 11, 12, 20, 45; CIM 1; ENG 1B; PHYS (2A and 2B). **Note:** This option is an impacted program. Refer to CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for details regarding selection criteria. Students are advised to contact a CSULB program advisor.

*Community Health Education Option—Prerequisites:* BIO 20, 45, 113; (and one additional anatomy/physiology or biology or microbiology course approved by a CSULB department advisor); CHEM (1A or 120); FN 50; SPAN 1 or other language approved by a CSULB advisor. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding program requirements.

Refer to the CSU general education certification requirements listed in the introduction to this section of the Saddleback College catalog.

## History

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in History

Introductory Survey Course Requirements (12 units):

*U.S. History (six units):* HIST (16 and 17) or (16 and 20 or SOC 20) or HIST (16 and 22\*) or HIST (17 and 22) or HIST (17 and 20 or SOC 20)

*World Civilization (six units):* HIST (4 and 5).

*Recommended Electives:* Other social science courses including; additional history, geography, political science, psychology, sociology, and humanities, including art history, music history, and foreign languages.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information.

**Note:** For students interested in the Single Subject Matter Competency Program (Secondary Teaching) in Social Sciences, include the following: ECON 2, 4; GEOG 3; HIST 4, 5, 16, 17, 32; PS 1, 12; and PHIL (1 or 10); also select one behavioral science course from: ANTH 1, 2, 9 or PSYC 1 or SOC 1.

Refer to the CSU General Education certification requirements listed in the introduction to this section of the catalog.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in History

*Lower-division Preparation (9 units):* HIST (16 or 17 or 19), can also be used to fulfill CSULB's requirement in U.S. history, and select at least two lower-division history courses from: HIST 4, 5, 62, 63, or consult with a CSULB program advisor regarding course selection.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding program requirements.

General Education: Refer to the CSU general education certification pattern in the introduction to this section of the catalog.

**UNIVERSITY OF CALIFORNIA, BERKELEY****Bachelor of Arts in History**

*Lower-division Requirements for the Major:*

Select one course from each of the following four areas:

- 1) *United States:* HIST (16 or 17)
- 2) *Europe/Western Civilization:* HIST (4 or 5)
- 3) *Asia, Africa or Latin America:* HIST 30, 70, 71, 72, 75, 80
- 4) *Elective:* Select an additional course from any of the above areas other than a course previously taken to fulfill requirements.

UCB recommends that students complete lower-division requirements prior to transfer. IGETC must be completed by the end of the spring term that precedes fall enrollment at UC Berkeley. Refer to the UCB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in History**

**Note:** In fulfillment of the requirements below, a single course may be used only once.

*Lower-division Requirements for the Major:*

Select two courses from two different regions:

*Africa:* HIST 80

*Asia:* HIST 70, 71

*Europe:* HIST 62, 63

*United States:* HIST 7, 8, 16, 17

*Latin America:* HIST 27, 28;

*Middle East:* HIST 74, 75

*Transregional History:* HIST 4, 5; **AND**

Also select up to three additional UC-transferable history courses; **AND**

Two years in a single language other than English at university level (or equivalent): French, German, Italian, Persian or Spanish 4; **AND**

*School Core Requirements:*

Complete ENG (1A and 1B) and HUM (10A and 10B); **OR** ENG (1A and 1B) and select two from HUM 1, 2, 3; **OR**

Select at least one course from each of the following areas for a total of at least four semester courses:

*Writing:* ENG 1A, 1B

*English Literature:* ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B

*History:* HIST 4, 5, 7, 8, 16, 17, 19, 62, 63

*Philosophy:* PHIL 1, 15

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to the ASSIST website at [www.assist.org](http://www.assist.org)

**UNIVERSITY OF CALIFORNIA, LOS ANGELES****Bachelor of Arts in History**

*Lower-division Preparation:* Select one course from: HIST 4, 5, 62, 63; and select two courses from: \*HIST 7, 8, 9, 10, 11, 12, 15, 16, 17, 19, 20, 21, 22, 25, 27, 28, 30, 32, 33, 40, 41, 61, 70, 71, 72, 74, 75, 80, 81 (\*UC credit may be limited for courses with overlapping content. Students are advised to consult with a Saddleback College counselor regarding course selection).

Refer to the UCLA catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

**Home Economics**

SEE FAMILY AND CONSUMER SCIENCES

**Hotel and Restaurant Management****CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA****Bachelor of Science in Hotel and Restaurant Management**

*Lower-division Preparation:* ACCT 1A, 1B; BUS 14; ECON 2; FN 171.

Refer to the Cal Poly Pomona catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this major.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Science in Applied Arts & Sciences-Hospitality and Tourism Management Major****Emphasis in Hotel Operations and Management****Emphasis in Restaurant Operations and Management****Emphasis in Attractions, Event, and Convention Management**

*Lower-division Preparation for all programs listed above:* ACCT 1A; BUS 14, 104; CIM (1 or 10); ECON 2, 4; MATH (3A or 11 and 10).

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding GPA and admissions requirements.

**Humanities****UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in Humanities**

This is an example of an interdisciplinary-studies major. Students are advised to consult with a UCI Humanities advisor in planning a program.

School core requirements for all humanities majors can be met with the following courses:

*School Core Requirements:*

Two years in a single language other than English at university level (or equivalent): French, German, Italian, Persian or Spanish 4; **AND**

Complete ENG (1A and 1B) and HUM (10A and 10B); **OR** ENG (1A and 1B) and two courses from HUM 1, 2, 3; **OR**

Select at least one course from each of the following areas for a total of at least four semester courses:

*Writing:* ENG 1A, 1B

*English Literature:* ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B

*History:* HIST 4, 5, 7, 8, 16, 17, 19, 62, 63

*Philosophy:* PHIL 1, 15

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to the ASSIST website at [www.assist.org](http://www.assist.org)

**Human Services****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Science in Human Services**

Community college transfer students may apply a maximum of 12 units of coursework in human services and related fields toward the 54-unit total required for the major. Transfer units must be approved by an advisor and the Program Coordinator at CSUF. Courses may be selected as follows (majors must achieve a grade of "C" or better in all courses included in the core curriculum and in the advisement track.):

CORE COURSES: HS 100, (110\* and 150\*), 120\*; MATH 10.

\*No upper-division credit granted by CSUF for HS 110, 120, 150.

**Note:** For transfer students who have completed an approved Alcohol and Drugs (CAADe-accredited program) or Eating Disorder Certificate Program at local community colleges, the CSUF Human Services program will accept up to eighteen (18) units of transfer credit for majors in the program. Students must show evidence of having completed the certificate program before transfer credit will be accepted. Students who have not completed the certificate program may apply a maximum of twelve (12) units of related coursework in human services or related fields toward the total of 54 units.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

General Education: See the general education certification requirements listed in the introduction to this section of the catalog.

#### SEE SOCIAL WORK

## Interior Design

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Fine Arts in Art - Option in Interior Design

The BFA in Interior Design 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. Portfolio review is required for admission to the professional BFA program. Students must achieve a "C" or better in each required design course to progress in the sequence of study. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding program requirements for this impacted major.

*Lower-division Preparation:* ART 25, 26, 40; ARCH 124A; ID 116, 121, 123, 133, 127. Students are advised to consult with a CSULB program advisor regarding selection of electives.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts in Arts - Emphasis in Interior Design

Students are advised to refer to the SDSU catalog, and ASSIST at [www.assist.org](http://www.assist.org) for details regarding transfer requirements for this impacted program.

*Lower-division Preparation:* ART 25, 26, 40, 41, 80, 81. Additional lower-division preparation is required after transfer.

After transfer, a portfolio review is required to advance to upper-division interior design coursework. Students are advised to refer to the SDSU catalog and to contact SDSU's School of Art, Design, and Art History for details pertaining to the nature and content of SDSU's portfolio review.

General Education: Refer to the general education certification requirements listed in the introduction to this section of the catalog.

## Journalism

#### SEE COMMUNICATIONS

## Kinesiology

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Kinesiology

*Requirements for the Major:* BIO 113 should be taken at Saddleback College prior to transfer to meet the anatomy/physiology prerequisite.

*Prerequisite Lower-division Performance Courses:* A minimum of six courses. Intercollegiate sports courses may be applied in the appropriate areas. Students are required to complete at least one course in each of the following areas:

*Fitness:* KNES 2, 4, 5 or 6.

*Aquatics:* KNES 41, 42, 43; KNES 47 (formerly PKNE 47) or KNES 48 (formerly PKNE 48).

*Combatives:* KNES 93 or 94.

*Individual Sports:* KNES 19, 20, 21, 22, 23 or 28.

*Racquet Sports:* KNES 24, 25 or 26.

*Team Sports:* KNES 70, 73, 74, 75, 76, 77, 78 or 79.

Refer to the CSUF catalog for further information on coursework and GPA requirements.

Subject Matter Competency Program (for obtaining single subject teaching credential in Physical Education): Refer to the requirements for the Kinesiology major listed above. Teacher Education students must take a minimum two courses in an "individual sports" area and add three units of dance (DANC 64 at Saddleback College) as well as a prevention and first aid course (HLTH 2 at Saddleback College). Refer to the CSUF catalog for details.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Kinesiology - Option in Athletic Training

*Lower-division Preparation:* BIO 11, 12; Select one from: CHEM 1A, (108 or 120); FN 50; KNES 53 (formerly PKNE 53); MATH 10; PHYS 2A; PSYC 1.

#### Bachelor of Science in Kinesiology - Option in Exercise Science

*Lower-division Preparation:* BIO 11, 12; CHEM (1A and 1B); ENG 1A; HLTH 2; MATH 8; PHYS (2A and 2B); PSYC 1; Electives: students can select 18 units (minimum six units from KIN upper-division courses at CSULB after transfer) recommended courses at Saddleback College: BIO 3A, 3B, 3C, 20; FN 50. Applicants to this program will be required to have proof of current First Aid or CPR certification.

Additional lower-division coursework required after transfer. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding program and GPA requirements for these impacted majors. Students are also advised to consult with a CSULB program advisor.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Science in Kinesiology (Exercise and Nutritional Sciences) - Applied Arts and Sciences

Students are advised to refer to the SDSU catalog and the ASSIST website at [www.assist.org](http://www.assist.org) for current information regarding these impacted programs.

*Athletic Training Emphasis: Lower-division Preparation:* BIO 3A & 3B & 3C or 3B & 3C, 11; CHEM 1A; KNES (4 or 5) and KNES 53 (formerly PKNE 53); MATH 10; PHYS 2A; PSYC 1, 3; SOC 1.

*Fitness, Nutrition & Health Emphasis: Lower-division Preparation:* BIO 11, 20; CHEM 108; MATH 10; KNES (4 or 5) and KNES 53 (formerly PKNE 53); PSYC 1; SOC 1;

*Physical Education Emphasis:* [For students who wish to be candidates for a Single Subject Teaching Credential at SDSU. Students interested in this program are advised to contact SDSU for details]. *Lower-division Preparation:* BIO 11, 20; CHEM 108; KNES 53 (formerly PKNE 53); MATH 10; PSYC 1; SOC 1.

*Pre-Physical Therapy-Kinesiotherapy Emphasis: Lower-division Preparation:* BIO 3A & 3B & 3C or 3B & 3C, 11; CHEM 1A; KNES (4 or 5) and KNES 53 (formerly PKNE 53); MATH 10; PHYS 2A; PSYC 1, 3; SOC 1.

*Pre-Physical Therapy-Rehabilitative Science Emphasis: Lower-division Preparation:* BIO 3A & 3B & 3C or 3B & 3C, 11, 15; CHEM 1A, 1B; KNES (4 or 5) and KNES 53 (formerly PKNE 53); MATH 10; PHYS 2A, 2B; PSYC 1; SOC 1.

## Law (Pre-Law)

No specific college major is required for admission to a school of law. A typical requirement for admission to a school accredited by the American Bar Association is that a student must have been granted a bachelor's degree from an accredited college or university. Some law schools, however, have alternate plans; therefore, students should consult the catalogs of the schools of law where they expect to apply for admission.

There is no definite pre-legal curriculum. The English major is highly recommended. The following recommendations are taken from guidelines supplied by the University of California Schools of Law at Berkeley, Davis, Los Angeles, and San Francisco. The student should obtain breadth in humanities, sciences, and liberal arts, such as anthropology, English, history, philosophy, mathematics and logic, sociology, economics, political science, and psychology. A general understanding of the business world is helpful, and strongly recommended is one year of accounting and the acquisition of computer skills. The student should develop writing competence and should take courses in which his or her work is edited vigorously.

## Liberal Studies

**IMPORTANT NOTE:** Course information for CSU Liberal Studies programs will be changing due to legislation mandates for Elementary Teacher education programs. Students interested in these programs are advised to contact a Saddleback College counselor and their intended transfer campus catalog for program information. Also refer to ASSIST at [www.assist.org](http://www.assist.org).

## Marine Biology

The preparation for the major is generally the same as that for any other biological sciences major, including a year of physics, two years of chemistry, one to two years of biology, and mathematics through calculus.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Marine Biology

*Lower-division Preparation:* BIO 3A, 3B, 3C, 19; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A, 2B.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information.

**Note:** Students who are interested in a transfer major in the marine sciences should refer to the programs outlined in the occupational vocational section of this catalog. Indications are that while advanced degrees are necessary for entering careers in marine sciences, employment possibilities are increased for those with the kinds of skills learned in the marine sciences technology courses. With proper planning, a three-year program can be completed which allows students to complete both vocational and transfer objectives. Because a high level of skill proficiency is required in today's job market, students are advised to complete vocational courses even if units in excess of the maximum allowed are accumulated.

### SEE BIOLOGICAL SCIENCES OR OCEANOGRAPHY

## Mathematics

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Mathematics

Each course required for the major must be completed with a grade of "C" or better. Courses required for the major may not be taken on a credit/no credit basis and are not subject to challenge examinations. CSUF recommends that students complete all lower-division mathematics courses prior to transfer.

*Lower-division Core Requirements:* CS 1B; MATH 3A, 3B, 3C, (24 & 26).

In addition to the above requirements, each student is required to complete 9-12 units in one of the following cognates or after transfer: *Actuarial; Chemistry; Civil Engineering; Computer Science; Economics; Information Systems & Decision Sciences (ISDS); Mathematics; Physics; Research.* Applicable lower-division preparation can be selected and completed at Saddleback College for the following cognates.

*Actuarial Cognate:* (no lower-division courses)

*Chemistry Cognate:* CHEM (1A and 1B).

*Civil Engineering Cognate:* ENGR 31.

*Computer Science Cognate:* CIM 2A, 172; CS 2B.

*Economics Cognate:* ECON 2, 4.

*Information Systems/Decision Sciences Cognate:* (no lower-division courses)

*Mathematics Cognate:* (no lower-division courses)

*Physics Cognate:* PHYS 4A, 4B, 4C.

*Research Cognate:* (no lower-division courses)

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information. Also refer to CSU general education certification section of this catalog.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Science in Mathematics

*Lower-division Requirements:* CS 1B; ENG 1B; MATH 3A, 3B, 3C, 26; PHYS 4A.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information. Also refer to CSU general education certification section of this catalog.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Science in Mathematics

*Lower-division Preparation:* MATH 3A & 3B & 3C, 24, 26; and select CHEM (1A and 1B) or PHYS (4A and 4B) or PHYS (4A and 4C) or PHYS (4A-4B-4C) sequence; and choose one equivalency from: CS 1B or CS (1A and 4A and 4B) (this combination equals UCI's ICSCI 21).

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

#### Bachelor of Science in Mathematics

*Lower-division Preparation:* CIM 6A; MATH 3A, 3B, 3C, 24, 26; PHYS 4A; and two additional courses from: BIO (3A or 3B); CHEM 1A, 1B; PHYS 4B, 4C.

Refer to the UCLA catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this major.

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

#### Bachelor of Arts in Mathematics

*Lower-division Preparation:* MATH 3A, 3B, 3C, 24, 26.

Refer to the UCSD catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

## Medicine (Pre-Medicine)

There are eight medical schools in California. Five of these are operated by the University of California (Davis, Irvine, Los Angeles, San Diego, and San Francisco). The three private schools are University of Southern California, Stanford University, and Loma Linda University. Preparation for admission requires high scholarship in three or usually four years of premedical study.

Typically medical schools will evaluate an applicant's abilities and personal qualities through several factors: college coursework and GPA (both cumulative GPA and science GPA); scores on admissions tests (e.g., MCAT); personal statement and interview; in-depth letters of recommendation; practical volunteer experience in a health profession; and research experience in biological medical, behavioral, or physical sciences. Extracurricular activities such as student clubs, organizations, athletics, and community involvement are recommended.

Students are advised to make normal progress toward a baccalaureate degree in a major of their choice. Admission requirements may vary from one school to another, and the following courses are a composite of minimum admission requirements to medical schools in general:

*Lower-division Preparation:* BIO 3A, 3B; CHEM 1A, 1B, 12A, 12B; PHYS (2A and 2B) or (4A and 4B) (preferred); MATH 3A, 3B; ENG 1A, 1B and an additional English course.

Detailed information about the offerings, requirements, and selection process should be obtained from the bulletin of the medical school in which the student is interested.

## Music

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Music

Liberal Arts Concentration, \*Music History & Theory Concentration, Music Education Concentration

*Lower-division Preparation - Core Requirements:* MUS 10, 11, 12; and principle performance area (applied music - 4 units)

*\*Allied Requirement for Music History & Theory Concentration: Proficiency in one foreign language (French, German, or Italian, preferably German, to be satisfied by one of the following:*

- 4 years study of foreign language at the secondary school level.
- Passing an exam given by CSUF's Department of Foreign Languages & Literature.
- Completing the second semester of the beginning university sequence of a foreign language (at Saddleback College: FR 2 or GER 2) or Italian 2nd semester.

*Music Theory Classes:* Transfer students are placed in required music theory classes based on their competence at entrance. Transfer credit will be given by CSU Fullerton only for those classes up to and including the student's demonstrated level of competence, regardless of how many courses or units have been taken.

*Music-Major Piano Classes:* All music majors at CSU Fullerton must reach a certain competency in piano. This may be achieved independently or through class-piano study. The CSU Fullerton Music Department does not require class piano in any degree program and thus does not grant transfer credit for piano classes, except as music electives.

#### Bachelor of Music

\*Composition Concentration, Instrumental Concentration, Keyboard Concentration, \*\*Voice Concentration, Accompanying Concentration, Commercial Music Concentration

*Lower-division Preparation - Core Requirements:* MUS 10, 11, 12; and principle performance area (applied music - 6 units)

*\*Allied Requirement for Composition Concentration: Proficiency in one foreign language (French, German, or Italian, preferably German, to be satisfied by one of the following:*

- 4 years study of foreign language at the secondary school level.
- Passing an exam given by CSUF's Department of Foreign Languages & Literature.

c) Completing the second semester of the beginning university sequence of a foreign language (at Saddleback College: FR 2 or GER 2 or ITA 2).

\*\* Allied Requirement for Voice Concentration: Same as Composition Concentration above, but two foreign languages must be satisfied.

*Music Theory Classes:* Transfer students are placed in required music theory classes based on their competence at entrance. Transfer credit will be given by CSU Fullerton only for those classes up to and including the student's demonstrated level of competence, regardless of how many courses or units have been taken.

*Music-Major Piano Classes:* All music majors at CSU Fullerton must reach a certain competency in piano. This may be achieved independently or through class-piano study. The CSU Fullerton Music Department does not require class piano in any degree program and thus does not grant transfer credit for piano classes, except as music electives.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding these programs.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Music and the Bachelor of Music

The Department of Music at UCI offers two degrees: the Bachelor of Arts in Music with emphases in Analysis, History, Jazz, and Performance; and the Bachelor of Music with specializations in composition, bassoon, clarinet, contrabass, flute, french horn, harp, jazz instrumental, lute and guitar, oboe, percussion, piano, saxophone, trombone, trumpet, tuba, viola, violin, violincello, and voice.

It is recommended that transfer students enter the major with college-level private instrumental or voice instruction, two years of music theory, the history of Western music, ear-training, sight-singing, sight-reading, and piano.

All transfer students must pass a performance audition in order to declare a major in either degree program. Transfer students must also take the placement tests in musicianship, theory, and history in order to receive credit toward fulfilling degree requirements. All transfer students should pass the required piano (sight-reading) examination no later than their second quarter of upper-division standing. A complete list of recommended proficiency levels can be found in the UCI catalog.

*Lower-division Core Requirements for both degree programs:* MUS 10, 11, 12, 24, 25, 26, 92, 93, 94.

\*One year of individual vocal or instrumental instruction and \*one year of ensemble or repertory is recommended prior to transfer.

\*At least one year for each category must be taken in residence at UCI.

Refer to the UCI catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding program and General Education requirements.

## Nursing

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Science in Nursing

The CSU Fullerton program is an upper-division program designed for registered nurses seeking a Bachelor of Science degree in nursing. Among the admission requirements are the following: 1) Meet requirements for admission to the university as a transfer student; 2) Completion of an associate degree in nursing or its equivalent; 3) Current licensure as a registered nurse in California; 4) Completion of one year of satisfactory work experience as a registered nurse is recommended; 5) Completion of the following (with a minimum grade of "C" in each course):

*Lower-division Preparation:* BIO 11, 12, 15; CHEM (1A or 3 or 108 or 12A); PSYC 1; (SOC 1 or ANTH 2).

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding this program.

## CALIFORNIA STATE UNIVERSITY, LONG BEACH

### Bachelor of Science in Nursing - Basic Nursing Program

This program is impacted and students must apply during the initial CSU application filing period. CSULB states that applicants to the upper-division major must also submit a supplemental application. Each applicant must also schedule a personal interview with a designated nursing faculty member at CSULB prior to transfer. Students are advised to refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for details regarding program and admissions requirements.

*Lower-division Preparation:* BIO 11\*, 12\*, 15\*; CHEM 108\*; PSYC 1\*, SOC 1\*; N 160 (required support course).

\*CSULB screening criteria equivalencies for this impacted major.

### Bachelor of Science in Nursing - Registered Nursing Program

*Lower-division Preparation:* Earned accredited Associate Degree in Nursing, current California licensure as a Registered Nurse, and 60 transferable units including certification of general education requirements.

Students interested in CSULB's Nursing programs are urged to contact CSULB's Nursing Department and ASSIST at [www.assist.org](http://www.assist.org) for current information regarding selection criteria and other details regarding program requirements.

## SAN DIEGO STATE UNIVERSITY

### Bachelor of Science in Nursing (Applied Arts & Sciences)

*\*Lower-division Prerequisites:* BIO 11, 12, 15, 20; MATH 10; PSYC 1, 7; SOC 1; SP 1 (equivalency for SDSU's required COMM 103 beginning Fall 2004). **\*Note:** SDSU faculty reviewers have determined there is no Saddleback College equivalency or comparable coursework in the current curriculum offered for SDSU's CHEM 130 program requirement. Students are advised to contact a SDSU Nursing program advisor regarding the chemistry requirement.

The Nursing major at SDSU is designated as an impacted program, and specific GPA requirements and regulations related to admissions are imposed.

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for details. It is also recommended that students contact the Nursing Department at SDSU for further information regarding this program.

#### Other CSU Nursing Programs:

Other CSUs offering either basic nursing, registered nursing programs, or both, are: Bakersfield, Chico, Dominguez Hills, Fresno, Hayward, Humboldt, Los Angeles, Northridge, Sacramento, San Bernardino, San Francisco, San Jose, San Marcos, Sonoma, and Stanislaus. Refer to each campus catalog of interest, and ASSIST at [www.assist.org](http://www.assist.org) for information regarding CSU campus nursing programs.

## UNIVERSITY of CALIFORNIA, LOS ANGELES

### Bachelor of Science in Nursing

The Nursing degree at UCLA is designed to prepare registered nurses (RNs) for advanced study at the graduate level. Emphasis is placed upon the preparation of nurses to meet the need for community-based care in a culturally diverse society. Admissions requirements include an Associate's Degree in Nursing from a state-approved program or a Diploma in Nursing from an accredited program, and current licensure as a Registered Nurse with a minimum of one year of full-time experience as an RN within the past five years. For additional information regarding admissions and course requirements, refer to the UCLA catalog and ASSIST at [www.assist.org](http://www.assist.org) for current details.

## Occupational Therapy

A master's degree will be required to practice as an entry-level Occupational Therapist in the United States. Occupational Therapy is a health-care profession that helps people who have been affected by accident or injury, disease, aging, developmental delay, or psychological disability make the necessary lifestyle changes to become more self-sufficient and independent. Career opportunities in Occupational Therapy vary and include hospitals, rehabilitation centers, nursing homes, public and private schools, day care facilities, patient homes, and corporations. Examples of universities offering Occupational Therapy programs at the master's level in California include CSU Dominguez Hills, Loma Linda University, San Jose State University, and the University of Southern California. Students are advised to contact the college or university of interest for further information on their OT program. Also refer to the Occupational Therapy Association of California (OTAC) website at [www.OTACOnline.org](http://www.OTACOnline.org)

## Oceanography

Oceanography is generally a graduate program. The Scripps Institute of Oceanography, San Diego, indicates that preparation for graduate study should involve a bachelor's degree in one of the natural sciences or mathematics with work to include: (1) mathematics through calculus (MATH 3A, 3B); (2) one year of calculus-based physics (PHYS 4A and 4B); (3) one year of general chemistry (CHEM 1A, 1B); (4) a second year of chemistry or physics (CHEM 12A, 12B); (5) at least one course each in biology or geology; and (6) preparation in at least one of the following languages: German, Russian, a Romance language.

## HUMBOLDT STATE UNIVERSITY

### Bachelor of Science in Oceanography

*Recommended Lower-division Preparation:* CHEM 1A, 1B; GEOL 1; MATH 3A, 3B, 3C, 10; MS 20; PHYS 4A.

Refer to the HSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this major.

General Education: Refer to the CSU general education certification section of the catalog for specific requirements.

**Note:** San Diego State University offers a minor in oceanography intended for students with extensive background in the sciences, as well as a major in geology with a marine geology option. Refer to the SDSU catalog for details.

### SEE MARINE BIOLOGY

## Optometry

The requirements for admission to the schools and colleges of optometry vary. However, all optometry schools and colleges require at least two years of pre-optometric study, which should include general biology or zoology (BIO 3A, 3B); general chemistry (CHEM 1A, 1B); general physics (PHYS 2A, 2B or 4A, 4B); college mathematics (MATH 124, 2 or 3A, 3B); and English composition (ENG 1A, 1B). Brief survey courses will not prepare a student for the schools and colleges of optometry.

Each optometry school has its own prescribed admissions requirements, and students are advised to contact the school or college of choice. See the following examples:

## UNIVERSITY OF CALIFORNIA, BERKELEY

### Optometry, Pre-Professional Recommended Preparation

All applicants to UCB's Optometry program are required to have a bachelors' degree. Refer to the UCB catalog, and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this program.

*Recommended coursework:* BIO 3A, 3B, 3C, 11, 12, 15; CHEM 1A, 1B (prerequisite for 12A), 12A, 12B; ENG 1A, 1B, 25; MATH 3A, 3B, 10; PHYS 4A, 4B; PSYC 1.

**SOUTHERN CALIFORNIA COLLEGE OF OPTOMETRY**

A candidate for admission is required to complete at least 90 semester units at an accredited institution prior to enrollment. At least 60 units must be completed at the time of application. Preference for admissions will be given to applicants who have completed a baccalaureate degree or higher. Very few students are admitted by the Southern California College of Optometry without completing a baccalaureate degree.

*Recommended Lower-division Preparation:* BIO 3A, 3B, 15; CHEM 1A, 1B, 12A, 12B; ENG 1A, 1B; MATH 3A, 10; PHYS 2A, 2B; PSYC 1 and one other transferable psychology course. Recommended: BUS 1 and CIM 1.

Refer to Southern California College of Optometry website at [www.scco.edu](http://www.scco.edu) for additional information regarding this program.

**Ornamental Horticulture****CALIFORNIA POLYTECHNIC STATE UNIVERSITY,  
SAN LUIS OBISPO****Bachelor of Science in Environmental Horticulture Science**

The major offers the student a comprehensive preparation for positions in the nursery, greenhouse, landscape, and floriculture industries.

*Major Course Requirements:* HORT 10, 11. *Support Courses:* ACCT 1A; BIO 3B; BUS (12 or 14); CHEM 1A; ECON 20; MATH (2 or 7 or 8). Recommended: SPAN 1.

Refer to the Cal Poly San Luis Obispo catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this program.

**Pharmacy**

The requirements for admission to schools and colleges of pharmacy vary. Students are advised to contact the institution of choice for details regarding special program and admission requirements. Normally a minimum of two years pre-pharmacy undergraduate preparation is required. Because of limited space and other factors, admission is very competitive. An increasing number of students are entering pharmacy schools after completion of the bachelor's degree.

**UNIVERSITY OF CALIFORNIA, SAN DIEGO****Bachelor of Science in Chemistry/Biochemistry: Pharmacological Chemistry**

The Pharmacological Chemistry major provides a strong background in chemistry and includes most courses required by California pharmacy schools. The major is intended primarily as preparation for pharmacy schools, but students fulfilling their elective requirements with appropriate courses would be prepared for graduate school to obtain a Ph.D. in pharmacology or other areas of science. Degree recipients would also be prepared for most jobs in the biotechnology and chemical industries.

*Recommended Lower-division Preparation:* BIO 3A & 3B; CHEM 1A, 1B, 12A, 12B; ECON (2 or 4); MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C.

Refer to the UCSD catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this program.

**UNIVERSITY OF CALIFORNIA, SAN FRANCISCO****Pre-Pharmacy Requirements**

UC San Francisco is a graduate/professional institution requiring pre-professional preparation or graduate standing for admission. The following courses will satisfy the pre-pharmacy course requirements for the School of Pharmacy at UC San Francisco.

*Lower-division Preparation:* BIO 3A, 3C, 12; CHEM 1A, 1B, 12A, 12B; ENG 1A, 1B; MATH 3A, 3B; PHYS (2A or 4A), (2B or 4B); and 18 semester units of UC-transferable Humanities/Social Science courses to include the following: ECON (2 or 4) and SP (1 or 3); and one of the following courses: ANTH 2, PSYC 1, or SOC 1.

Refer to the UC San Francisco School of Pharmacy catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding admissions requirements for this program.

**UNIVERSITY OF CALIFORNIA, SANTA BARBARA****Bachelor of Science in Pharmacology**

Students are admitted initially to the pre-major. Per UCSB, admission into the pre-major does not guarantee automatic admission to full major standing. For details regarding GPA, selection criteria and other admissions requirements refer to the UCSB catalog and website [www.lifesci.ucsb.edu](http://www.lifesci.ucsb.edu) and ASSIST at [www.assist.org](http://www.assist.org)

*Lower-division Preparation:* BIO 3A & 3B & 3C; CHEM 1A & 1B, 12A, 12B; (MATH 3A and 3B) or (MATH 11 and UCSB's MATH 34B after transfer), MATH 10 or (MATH 24 and 26); PHYS 2A, 2B.

**UNIVERSITY OF THE PACIFIC****Pre-Pharmacy Requirements (Doctor of Pharmacy Program)**

*Lower-division Preparation:* BIO 3A, 3B, 15; CHEM 1A, 1B, 12A, 12B; ECON 2; ENG 1A, 1B; MATH (3A or 11); PSYC (1 or 37); PHYS (2A or 4A); SP 1. Recommended: Math 10.

A minimum of 64 semester units of college-level coursework is required for admission. UOP will accept general education programs completed at most accredited colleges and universities, including the CSU G.E. Certification pattern and the IGETC (CSU or UC patterns). Refer to the UOP catalog and website at [www.uop.edu/pharmacy](http://www.uop.edu/pharmacy) and contact a UOP program advisor for further details regarding program and admissions requirements.

**UNIVERSITY OF SOUTHERN CALIFORNIA****Pre-Pharmacy Requirements**

*Lower-division Preparation:* BIO 3A & 3C or 1A & 1C, 12, 15; CHEM 1A & 1B, 12A & 12B; ECON (2 or 4); ENG (1A and 1B); MATH 3A, 10; PHYS (2A and 2B) or (4A and 4B); (PSYC 1 or SOC 1); SP 5; **AND**

*\*Humanities Requirement:* Select six transferable semester units of courses in literature, philosophy, history, ethics, foreign language, art history, or music history. Studio or performance classes in art and music are not acceptable; and

*\*Social & Behavioral Sciences Requirement:* Select six additional transferable semester units of courses in social and behavioral sciences. Recommended areas include anthropology, economics, geography, psychobiology, psychology, or sociology.

*\*Note:* Units will not be counted for candidates who have completed a BA or BS degree before beginning USC's pharmacy program.

Students are advised to contact USC's School of Pharmacy at (323) 442-1466 or (323) 442-1369, and the USC website at [www.usc.edu](http://www.usc.edu) for further details regarding program requirements.

**Philosophy****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Arts in Philosophy**

*Lower-division Preparation:* A maximum of six units of lower-division courses selected from: PHIL 1, 10, 12.

*Transfer Credit:* No more than six units of lower-division work taken at another institution count toward the major requirement of 39 units. Philosophy majors who are planning to attend graduate school in philosophy are recommended by CSUF to acquire proficiency in a foreign language. Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information.

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in Philosophy**

**Note:** In fulfillment of the requirements below, a single course may be used only once.

*\*Lower-division Preparation for the Major:* Phil 12; **AND**

Two years in a single language other than English at university level (or equivalent): Arabic, French, German, Italian, or Spanish 4; **AND**

*School Core Requirements:*

Complete ENG (1A and 1B) and HUM (10A and 10B); **OR** ENG (1A and 1B) and two courses from HUM 1, 2, 3; **OR**

Select at least one course from each of the following areas for a total of at least four semester courses:

*Writing:* ENG 1A, 1B

*English Literature:* ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B

*History:* HIST 4, 5, 7, 8, 16, 17, 19, 62, 63

*Philosophy:* PHIL 1, 15

Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

**Physical Education****SEE KINESIOLOGY****Physical Therapy  
(Pre-Physical Therapy)**

*The Commission on Accreditation in Physical Therapy Education (CAPTE) will no longer accredit baccalaureate degree programs.*

*CSU Fresno, CSU Long Beach, CSU Northridge, CSU Sacramento, and San Francisco State University have Masters in Physical Therapy (MPT) programs. Interested students are advised to contact the campus of choice for further information and details regarding admissions and program requirements.*

**\*General Requirements for CSU pre-Physical Therapy Programs:**

The pre-physical therapy education requirements are similar to pre-medical and other pre-health professional programs. Students must follow a prescribed program leading to a bachelor's degree including coursework in appropriate physical, biological, and behavioral sciences. The physical therapy program at some campuses may be impacted; that is, the number of applicants exceeds the number that can be accepted; therefore, physical therapy applicants are subject to supplemental criteria in addition to those required for admission to a university. Students are advised to consult the catalog or graduate bulletin for specific information on MPT entrance and program requirements at the university of choice.

*\*Recommended Lower-division Preparation:*

The following courses at Saddleback College are recommended as preparation for a major, as general education, or as electives to meet minimum screening requirements for CSU MPT programs: BIO 11, 12; CHEM 1A, 1B; MATH 10; PHYS 2A, 2B; PSYC 1.

**LOMA LINDA UNIVERSITY****Progression Master of Physical Therapy (BS and MPT)**

*Lower-division Requirements:*

**Domain 1:** *Spiritual and Cultural Heritage* (Total of 14 semester units minimum in Domain 1)

*Religion (3-6 units):* Any transferable religion or humanities courses.

*Cultural Heritage (9 semester units minimum):* Select courses in at least three areas from: ART 20; ENG 15A, 15B, 17A, 17B, 21A, 21B; any foreign language; HIST 4, 5, 16, 17, 19; MUS 20 (Applied Art/Music one semester hour maximum); PHIL 1, 12, 15.

**Domain 2:** *Scientific Inquiry and Analysis:*

*Natural Sciences:* BIO (11 and 12) (sequence) or BIO (3A-3B-3C) (sequence); CHEM 1A-1B (sequence) and PHYS 2A or PHYS (4A-4B-4C) (sequence) and CHEM 108; also BIO 15 and MATH 10.

*Social Sciences:* PSYC 1, 7.

**Domain 3:** *Communication:* CIM 120; ENG (1A and 1B); SP 5.

**Domain 4:** *Health and Wellness:* FN 50; and select two units of KNES (activity).

**Domain 5:** *Electives:* Contact an academic advisor at Loma Linda University regarding selection of elective courses for transfer;

*Work Experience:* A minimum of 2,500 hours, work experience as a physical therapist assistant.

**Note:** All courses must be completed with a grade of "C" or better. "C minus" grades are not transferable for credit.

Refer to Loma Linda University, School of Allied Health Profession's website at [www.llu.edu/llu/sahp/transfer](http://www.llu.edu/llu/sahp/transfer) for additional information regarding program requirements.

**MOUNT ST. MARY'S COLLEGE****Emphasis in pre-Physical Therapy-Biological Sciences**

*Lower-division Preparation:* BIO 3A, 3B, 11, 12; CHEM 1A, 1B; ENG 1A, 1B; MATH 10; PHYS (2A and 2B) or (4A and 4B); PSYC 1, 7; SP 1. Recommended: CS 1A; PSYC 2.

General Education: Mt. St. Mary's College has a prescribed G.E. program. Refer to Mount St. Mary's College website at [www.msmla.edu](http://www.msmla.edu) for additional information regarding G.E. and program requirements.

**WESTERN UNIVERSITY OF HEALTH SCIENCES****Doctor of Physical Therapy (DPT)**

A bachelor's degree from an accredited institution and completion of all DPT prerequisite coursework are required for admission.

*Lower-division Preparation for Prerequisites:* BIO 11, 12; CHEM 1A 1B; ENG 1A, 1B; MATH 10; PHYS 2A, 2B; and select two courses from: PSYC 1, 5, or 7.

Students are advised to contact Western University of Health Sciences at (909) 623-6116 for additional information as well as their website at [www.westernu.edu](http://www.westernu.edu)

**Physician Assistant****UNIVERSITY OF SOUTHERN CALIFORNIA****Masters in Physician Assistant Practice**

A bachelor's degree from an accredited institution and completion of all PA-prerequisite coursework are required for admission to USC's Physician Assistant Practice program.

*Lower-division Preparation for Prerequisites:* ENG 1A, 1B; BIO 3A, 3B, 11, 12, 15; CHEM (1A and 1B); MATH 10; PSYC 1 and SOC 1 or ANTH 1; and six transferable semester units in Humanities (art, music, philosophy, or religion). **Note:** Proficiency in Spanish is recommended by USC. Applicants are also expected to have a strong competency in medical terminology.

Students are advised to refer to the USC catalog and contact USC's Primary Care Physician Assistant Program Admissions Office at (626) 457-4240 for further details regarding coursework and PA admissions requirements.

**LOMA LINDA UNIVERSITY****Masters of Science in Physician's Assistant**

The applicant must have a baccalaureate degree from an accredited institution, and at least 1,000 hours of hands-on patient care experience.

*Lower-division Preparation:* BIO 11, 12, 15; CHEM 108; ENG 1A, 1B; MATH (7 or 8); PSYC 1; (SOC 1 or ANTH 2). Recommended: CIM (1 or 10), MATH 10, N 160.

Students are advised to contact Loma Linda's School of Allied Health Professions at (800) 422-4558 and website [www.llu.edu/llu/sahp/](http://www.llu.edu/llu/sahp/) transfer for more details regarding admissions and program requirements.

**WESTERN UNIVERSITY OF HEALTH SCIENCES****Physician Assistant Program**

Admission to this program is on a competitive basis. All applicants admitted to the program must have earned a bachelor's degree from an accredited college or university.

*Lower-division Recommended Preparation/Prerequisites:* BIO 11, 12, 15; CHEM 1A, 1B; ENG 1A, 1B; MATH 7, 10; PSYC 1; SOC 1. Recommended: BIO 41, SPAN 1.

Students are advised to contact Western University of Health Sciences at (909) 623-6116 and website at [www.westernu.edu](http://www.westernu.edu) for further details regarding program and admissions requirements.

**Physics****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Science in Physics**

*Lower-division Preparation:* CHEM 1A, 1B; MATH 3A, 3B, 3C; and PHYS 4A, 4B, 4C.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding this major.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Science in Physics**

*Lower-division Preparation:* BIO 20; CHEM 1A, 1B; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

Refer to the CSULB catalog for more information regarding this major.

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Science in Physics**

*Lower-division Core Requirements:* CS 1B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A & 4B & 4C.

Emphasis in business: Substitute ACCT 1A for CHEM 1B.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

**Political Science****CALIFORNIA STATE UNIVERSITY, FULLERTON****Bachelor of Arts in Political Science**

*Lower-division Preparation:* PS 1 is a graduation requirement for all students and is not part of the political science major but is a prerequisite to further work in political science at CSUF. Students may apply no more than nine units total in lower-division courses toward the major: PS 4 (required) and two additional courses may be applied toward the major from the following: PS 4, 12, 14 or 17. Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

**Note:** Students interested in the Single Subject Matter Preparation Program (Secondary Teaching) in Social Sciences, **ADD** the following courses: ECON 2, 4; GEOG (2 or 3); HIST 4, 5, 16, 17, 32; PHIL (1 or 10); also select one behavioral science course from: ANTH 1, 2, 9 or PSYC 1 or SOC 1.

General education requirements may be certified by following the CSU general education certification pattern outlined in this catalog.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Arts in Political Science**

*Lower-division Requirements:* PS 1. Recommended electives (maximum of 6 units): PS 4 and 12. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information.

General education requirements may be certified by following the CSU general education certification pattern outlined in this catalog.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Arts in Political Science**

This is an impacted program. Refer to the SDSU catalog and the ASSIST website at [www.assist.org](http://www.assist.org) for further information regarding GPA requirements and admissions selection criteria.

*Preparation for the Major:* PS 1, 4, 12 and MATH 10.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

SDSU recommends students have study abroad experience for this major.

General Education: Refer to CSU general education certification section of this catalog.

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in Political Science**

*Lower-division Requirements:*

**Political Science Option A:**

PS 4; **and** select one course from: PS 1, 10, 12, 14; **and**

One course from political science not taken from proceeding courses: PS/ECON 1, 10, 11, 12, 14, 17, 21, PS/HIST 61, PS/HIST 75, PS/HIST 80; **and**

One course in political science or from another social science discipline (not taken from proceeding courses): ANTH 1, 2, 3, 4, 6, 7, 8, 9, 10, 13, 14, 15, ANTH/SP 20, ANTH 21, CCS 1, 2, 10; ECON 2, 4, ECON/ENV 6, ECON/PS 11; GEOG 1, 2, 3, 38; PS 1, 4, 10, PS/ECON 11, 12, 14, PS/HIST 61, PS/HIST 75, PS/HIST 80; PSYC 1, 2, 3, 7, 16, 21, PSYC/SOC 30, 37; SOC 1, 2, 4, 5, 6, 10, 15, SOC/HIST 20, 21, 25, 30; **or**

**Political Science Option B:**

Select three courses from: PS 1, 10, 12, 14; **and**

Two additional courses not taken from preceding courses in option B: PS 1, 10, PS/ECON 11, 12, 14, PS/HIST 61, PS/HIST 75, PS/HIST 80; **and**

One course in political science or another social science (not taken from the proceeding course list in option B): ANTH 1, 2, 3, 4, 6, 7, 8, 9, 10, 13, 14, 15, ANTH/SP 20, 21; CCS 1, 2, 10; ECON 2, 4, ECON/ENV 6, ECON/PS 11; GEOG 1, 2, 3, 38; PS 1, 4, 10, PS/ECON 11, 12, 14, PS/HIST 61, PS/HIST 75, PS/HIST 80; PSYC 1, 2, 3, 7, 16, 21, PSYC/SOC 30, 37; SOC 1, 2, 4, 5, 6, 10, 15, SOC/HIST 20, 21, 25, SOC/PSYC 30

**AND (OPTION A & B)**

CIM 10 *or* (CIM 2A and 10) *or* CS (4A and 4B); *and* \*MATH (3A and 10) *or* a one-year statistics sequence taken after transfer.

\*The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

## Psychology

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Psychology

*Lower-division Major Requirements:* MATH 10; PSYC 1, 2.

**Note:** A maximum of nine lower-division units of psychology courses are transferable toward the psychology major. Additional lower-division units taken in psychology at a community college and approved by CSUF may be used for university credit for graduation.

See the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this program.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Psychology

*Lower-division Preparation:* MATH 10\*; PSYC 1\*, 2\*, 3.

\*CSULB screening criteria for this impacted major which must be completed with a minimum grade of "C".

**Note:** The CSULB catalog states that their PSY 301 must be completed during the first semester after transfer. Students are advised to contact CSULB's Psychology Department for details. Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information regarding GPA requirements and other admissions selection criteria for this impacted major.

### CALIFORNIA STATE UNIVERSITY, SAN MARCOS

#### Bachelor of Arts in Psychology

*Lower-division Preparation:* PSYC 1, 2; MATH 10

Refer to the CSUSM catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts in Psychology

This is an impacted program. Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for information regarding GPA requirements and admissions selection criteria.

*Lower-division Requirements:* BIO (3A & 3B & 3C) OR (3B & 3C), 20; MATH 10; PSYC 1, 3, 7.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

A minor is not required for this major. However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, or social work. Contact SDSU for more information regarding this program.

General Education: For CSUF, CSULB, CSUSM, and SDSU general education, refer to the California State University general education certification section of this catalog for specific requirements.

### CHAPMAN UNIVERSITY

#### Bachelor of Arts in Psychology

*Lower-division Preparation:* MATH 10; PSYC 1, 2, 3.

*General Education and Common Requirements:* Chapman University accepts either CSU G.E. Certification or IGETC Certification. Students are advised to consult with a Saddleback College counselor regarding additional coursework that can be completed prior to transfer in fulfillment of Chapman University's Common Requirements in quantitative reasoning, foreign language, world cultures and human diversity.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Psychology

**Note:** In fulfillment of the requirements below, a single course may be used only once.

*Lower-division Preparation for the Major:* PSYC 1 and 3 and 30 (the preceding courses must be completed to receive transfer credit for UCI's PSYCH 9A-B-C required sequence); also select one course from: PSYC 2, 7, 16, 21, 37, (30 if not taken above); and select two courses from: ANTH (1 or 2); ECON (2 or 4); PS 4; SOC 1; **AND**

CIM 10 or (CIM 2A and 10) or CS (4A and 4B); and \*MATH (3A and 10) or a one-year statistics sequence taken after transfer.

\*The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

#### Bachelor of Arts in Psychology and Social Behavior

This UCI major studies human behavior in social contexts, and investigates how different social environments (e.g., the family, school, workplace, culture) affect health and human behavior. The major provides a foundation that will enable graduates to work in the private or public sectors or to do graduate work in psychology, public health, health services, social work, counseling, or education. Refer to the UCI catalog for additional information regarding this program.

*Lower-division Preparation for the Major:* ENV 1; PSYC 1 & 3 & PSYC/SOC 1 All three courses must be taken to receive credit for P11A-P11B-P11C, (combination required as equivalency for UCI's PSY BEH P9); PSYC 2; MATH 10.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

#### Bachelor of Arts in Psychology

*Lower-division Preparation for the Major:* ANTH 1; BIO 20 or BIO (3A and 3B); CHEM (1A or 3); PHYS (2A or 4A or 20); PSYC 1; Select one course from the following: MATH 3A, 9, \*10, 11, CIM 6A (\*UCLA prefers completion of MATH 10); and select one course from PHIL 1, 12, or 15.

**Note:** Admission is highly selective. Applicants with the strongest academic preparation and performance will be the most competitive for admission. Refer to the UCLA catalog and ASSIST at [www.assist.org](http://www.assist.org) for more information.

## Public Administration

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Public Administration

*Lower-division Preparation:* PS 1 is a graduation requirement for all students and is not part of this major, but is a prerequisite to further work in political science and public administration at CSUF.

Students are advised to refer to the CSUF catalog for additional information regarding this program.

General Education: Refer to the CSU general education certification requirements in the introduction to this section of the catalog.

**SAN DIEGO STATE UNIVERSITY****Bachelor of Arts in Applied Arts and Sciences - Public Administration**

The Public Administration program at SDSU is impacted. Students are advised to refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this major.

*Lower-division Preparation:* ACCT 1A; CIM (1 or 10); ECON 2, 4; MATH 10; PS 1.

General Education: Refer to the CSU general education certification requirements in the introduction to this section of the catalog.

**Radio/Television/Film****CALIFORNIA STATE UNIVERSITY, LONG BEACH****Bachelor of Arts in Film and Electronic Arts (Option in Film and Electronic Media; Option in Film and Video Production)**

Applicants to this impacted upper-division major must have completed a minimum of 60 semester units with certification of G.E. requirements and a cumulative GPA of 3.00 or higher. Students interested in this major should refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) and contact an advisor at CSULB's College of the Arts for details regarding admissions requirements and supplemental screening criteria.

*Lower-division Major Requirements:* ART 20 or 26

General Education: Refer to California State University certification of general education requirements outlined in this catalog.

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE****Bachelor of Arts in Cinema and Television Arts (Available Options: Electronic Media Management; Film Production; Media Theory and Criticism; Multi-Media Production; Radio Production; Screenwriting; and Television Production)**

*Lower-division Requirements for all Options listed:* (CA 1 or JRN 1), 30.

**ADD** for Electronic Media Management Option: CA 40, 110 or 124.

**ADD** for Film Production Option: CA 40; PHOT 50.

**ADD** for Media Theory and Criticism Option: CA 40.

**ADD** for Multimedia Production Option: CA 40, 124.

**ADD** for Radio Production Option: CA 40, 110.

**ADD** for Screenwriting Option: CA 40, 110 or 124.

**ADD** for TV Production Option: CA 40, 124.

Admission to this program is limited, and students must initially apply for admittance into the pre-major. Students interested in this major are advised to contact a CSUN program advisor. For details regarding program requirements, refer to the CSUN catalog and ASSIST at [www.assist.org](http://www.assist.org)

**SAN DIEGO STATE UNIVERSITY****Bachelor of Science (Applied Arts & Sciences) in Television-Film and New Media Production Major**

The Television-Film program at SDSU is designed to prepare students for professions in television, film, and new media production. The degree also serves those in occupations where extensive knowledge is required of message design for these media and their various distribution systems. The program focuses on skills required for careers as producers, directors, art directors, production assistants, and writers.

This program is designated as an impacted program and has enrollment limitations and requires additional application procedures. Students are advised to refer to the SDSU catalog and contact a SDSU program advisor for further information. Also refer to ASSIST at [www.assist.org](http://www.assist.org)

*Lower-division Preparation for the Major:* CA 30, 31, 32, 40, 110, 124, 125; TA 20, 25 or 26.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Refer to the CSU general education certification requirements in the introduction to this section of the catalog.

**SEE COMMUNICATIONS****Social Ecology****UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in Social Ecology**

*Lower-division Major Requirements:* ENV 1; MATH 10; PSYC 1 and SOC 1 (both must be taken to receive credit for UCI's PSY BEH 9); and PSYC 2.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

**Social Sciences****SAN DIEGO STATE UNIVERSITY****Bachelor of Arts - Social Sciences Major**

*Lower-division Preparation:* MATH 10; and two courses selected in three fields from: ANTH 1, 2; ECON 2, 4; GEOG 1, 2; HIST (7 or 16) and HIST (8 or 17) or (62 and 63); PS 1, 4, 12; SOC 1, 2.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Students are advised to refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for further information regarding this program.

General Education: See the CSU general education certification section in this catalog for specific requirements.

**UNIVERSITY OF CALIFORNIA, IRVINE****Bachelor of Arts in Social Sciences**

Students majoring in Social Sciences must choose a specialization from the following: Multicultural Studies, Public and Community Service, Research and Analytical Methods, or Social Studies.

**Note:** In fulfillment of the requirements listed, a single course may be used only once.

*Lower-division Preparation:* Select one course from: ANTH 1, 2, 3, 9, or ECON 2, 4, or GEOG, 1, 2, 3, or PS 4, or PSYC 1, or SOC 1; and \*MATH (3A and 10) or a one-year statistics sequence taken after transfer (\*The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI).

*Multicultural Studies Specialization ADD:* SOC 20; and one course from: CCS 1, 2, 10, HIST 33, SOC 4, 6; and one course not already taken from: ANTH 4, 7, 21; CCS 1, 2, 10; PS 21; PSYC 16, 21; or SOC 5, 6, 21.

*Research and Social Policy Specialization ADD:* two courses from: ANTH 2; ECON (2 or 4); PS 1, 4; SOC 2.

*Social Sciences Specialization for Secondary School Education ADD:* HIST (4 & 5 & 16 & 17); and (ANTH 4 & ECON 2) or (ECON 4 & GEOG 3 and PS 1).

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

## Social Work

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Social Work

*Required Lower-division Preparation:* ANTH 2\*; BIO 113\*; HS 100, 110 or 150; MATH 10\*; PSYC 1\*; SOC 1\*.

\*Per CSULB, screening criteria equivalencies for this impacted major are to be completed with a minimum 2.5 GPA.

**Note:** The Social Work program at CSULB is impacted. Applications are accepted during the initial filing period for Fall terms only, and are subject to supplemental criteria and GPA requirements. Students are advised to refer to ASSIST at [www.assist.org](http://www.assist.org) and the CSULB catalog and contact a CSULB department advisor for further details regarding this impacted program.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts Degree in Liberal Arts and Sciences - Social Work

This major is impacted and students are advised to refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding program requirements.

*Lower-division Preparation:* BIO 20; ECON 2; MATH 10; PSYC 1; SOC 1; additional lower-division coursework to be completed after transfer.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

This major is impacted and students are advised to refer to the SDSU catalog and the ASSIST website at [www.assist.org](http://www.assist.org) for additional information regarding program requirements.

## Sociology

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Sociology

A maximum of nine lower-division units may be transferred from a community college and applied to the 36 units required in the major. Minimum requirements include SOC 1. The following courses can be transferred for credit toward the major within the nine-unit limitation:

SOC 1 (required); and select two courses from: SOC 15, 20 (or HIST 20), 21, 25, 30 (or PSYC 30). Coursework must be completed with a grade of "C" or better.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details. See the CSU general education certification section for specific G.E. requirements.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Sociology

*Lower-division Preparation:* SOC 1, 2, and MATH 10. Recommended elective: ANTH 2.

Refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

General Education: See CSU general education certification section for specific requirements.

### CALIFORNIA STATE UNIVERSITY, SAN MARCOS

#### Bachelor of Arts in Sociology

*Lower-division Preparation:* SOC 1. Recommended: MATH 10.

All courses taken for the major must be completed with a grade of "C" or higher. Refer to the CSUSM catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

General Education: See CSU general education certification section for specific requirements.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts in Liberal Arts and Sciences - Sociology

*Lower-division Preparation:* CIM (1 or 10); SOC 1, 2 and MATH 10.

*Foreign Language Requirement:* Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Refer to the SDSU catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this impacted program.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Sociology

**Note:** In fulfillment of the requirements listed below, a single course may be used only once.

*Lower-division Preparation:* SOC (1 and 2), and *select one course from:* ANTH 1, 2, 3, 9; ECON 2, 4; GEOG 1, 2, 3; PS 4; PSYC 1; SOC 1; **AND**

*Select one course not already taken from:* ANTH 1, 2, 3, 4, 6, 7, 8, 9, 10, 13, 14, 15, 20, 21; CCS 1, 2, 10; ECON/ENV 6, ECON 11, 20; GEOG 1, 2, 3, 38; PS 1, 4, 10, 11, 12, 14, 61, 75, 80; PSYC 1, 2, 3, 7, 16, 21, 30, 37; SOC 1, 2, 4, 5, 6, 10, 15, 20, 21, 25, 30; **AND**

*Select two courses not previously taken from:* SOC 10 and (SOC 30 or PSYC 30); **AND**

CIM 10 or (CIM 2A and 10) or CS (4A and 4B); and \*MATH (3A and 10) or a one-year statistics sequence taken after transfer.

\*The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at [www.assist.org](http://www.assist.org)

### CHAPMAN UNIVERSITY

#### Bachelor of Arts in Sociology

*Recommended Lower-division Preparation:* SOC 1, 25. Select 12 units from: ANTH 1, 2, 3, 4, 6, 7, 8, 9, 10, 13, 14, 21, 108. SOC 2, 4, 5, 6, 10, 15, 15, 20, 21, 30.

*Recommended GE:* MATH 10, ANTH 2

*General Education and Common Requirements:* Chapman University accepts either CSU G.E. Certification or IGETC Certification. Students are advised to consult with a Saddleback College counselor regarding additional coursework that can be completed prior to transfer to fulfill additional general education requirements.

## Speech Communication

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Speech Communication

*Lower-division Preparation:* SP 1. Students are advised to consult with a CSUF Speech Communication program advisor regarding selection of 15 units of lower-division electives (Examples: SP 2, 3, 5, 35). Additional lower-division coursework to be taken at CSUF after transfer.

Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for additional information regarding this program.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Communication Studies

(Options: *General Speech, Interpersonal and Organizational Communication, and Rhetorical Studies*)

*Lower-division Preparation:*

*General Speech Option:* SP 1, (SP 35 or TA 35), 3 and 5.

*Interpersonal & Organizational Communication Option:* SP 1, 3 or (SP 35 or TA 35), and 5.

*Rhetorical Studies Option:* SP 1, 3, (SP 35 or TA 35).

For additional information regarding these programs, students are advised to refer to the CSULB catalog and ASSIST at [www.assist.org](http://www.assist.org)

General Education: See CSU general education certification section for specific requirements.

## Theatre Arts

### CALIFORNIA STATE UNIVERSITY, FULLERTON

#### Bachelor of Arts in Theatre Arts

Liberal Arts Concentration:

*Lower-division Preparation:* TA 20, (TA 30 or SP 30), (40 or 42).

*Acting/Directing:* TA/SP 35 and TA 1, 2, 11

*Technical Theatre & Design:* TA 45

Production/Performance Concentration:

*Directing Emphasis:* TA 11, 20, (TA 35 or SP 35), 40, 42 (TA 30 or SP 30, 45).

*Playwriting Emphasis:* TA 20, TA/SP 30, 40, 42, 45.

*Technical Production/Design Emphasis:* TA 20, TA/SP 30, 40, 42, 45.

Teaching Concentration (Single Subject):

*Lower-division Preparation:* TA 1, 11, TA/SP 35, 20, 40, 42, 45. Refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for details.

#### Bachelor of Fine Arts in Theatre Arts

Musical Theatre Concentration:

All applicants for the BFA degree must complete the following courses with a "B-" or better grade in each course, for entry into the degree program.

*Lower-division Preparation:* MUS 1, TA/SP 35 and TA 1, 2, 11, 20; also complete the following courses: TA 40, 42, 45; DANC 53\*, 59\*, 62 (\*minimum two units each course). Elective: MUS 54

Acting Concentration:

*Lower-division Preparation:* TA/SP 35 and 1, 2, 11, 20; also complete one of the following courses: TA 40 or 42 or 45; MUS 55

**Note:** Students are advised to refer to the CSUF catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding program requirements.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

#### Bachelor of Arts in Theatre Arts

All incoming students are required to audition (in the case of the performance option) or interview (in the case of all other options).

*Lower-division Core Required for all Majors and Options:* TA 1, 40, 41, 42,

*Performance (Acting/Directing) Option:* **ADD** TA 3, 11, TA/SP 35, 43

*Technical Theatre (Scenery/Costume/Lighting/Design Option):* **ADD:** TA 43.

Refer to the CSULB catalog for additional information regarding this program.

### SAN DIEGO STATE UNIVERSITY

#### Bachelor of Arts in Applied Arts and Sciences-Theatre Arts Majors

*General Theatre Arts:* TA 1, 2, 20, (25 or 26), TA/SP 35, 42.

*Children's Drama:* TA 1, 20, (25 or 26), TA/SP 35, 42.

*Design and Technology for Theatre:* TA 1, 20, (25 or 26), 42.

*Design for Television and Film:* CA 30; TA 1, 20, 42.

*Performance:* TA 1, 2, 20, (25 or 26), (TA 35 or SP 35), 42.

Per the SDSU catalog neither a minor nor a foreign language is required with this major. Refer to the SDSU catalog and ASSIST website at [www.assist.org](http://www.assist.org) for further information regarding these impacted programs.

General Education Requirements: For CSUF, CSULB, or SDSU, students are advised to complete the CSU General Education certification pattern.

### UNIVERSITY OF CALIFORNIA, IRVINE

#### Bachelor of Arts in Drama

*Lower-division Preparation:* TA (1 and 2), (25 and 26), 40, 41, 42, 45;

Refer to the UC Irvine catalog and ASSIST at [www.assist.org](http://www.assist.org) for further details regarding this major.

## Veterinary Medicine

### UNIVERSITY OF CALIFORNIA, DAVIS

Requirements for Admission to the School of Veterinary Medicine:

Candidates for admission to the UC Davis veterinary medicine program must have completed the equivalent of at least 72 semester units at an accredited college or university. A baccalaureate degree is advisable. Students are advised to contact the School of Veterinary Medicine at UC Davis at (530) 752-1383 or website at [www.vetmed.ucdavis.edu](http://www.vetmed.ucdavis.edu) and ASSIST at [www.assist.org](http://www.assist.org)

*Lower-division Preparation:* BIO 3A, 3C; CHEM 1A, 1B, 12A, 12B; PHYS (2A and 2B) or PHYS (4A and 4B and 4C).

*Additional Requirements:* ENG 1A, 1B, and one other UC-transferable English course (English, rhetoric, speech, or literature); MATH 10; and three UC-transferable courses in humanities and social sciences (history, sociology, languages, music, art, psychology, ethnic studies, anthropology).

*Veterinary and Animal Experience:* A minimum of 180 hours of relevant veterinary and animal experiences with types of activities that give an understanding and appreciation of veterinary medicine must be met in order to have an application evaluated.

### WESTERN UNIVERSITY OF HEALTH SCIENCES

#### Veterinary Medicine Program (DVM)

*Lower-division Preparation:* BIO 3A, 3C, 15, 41; CHEM 1A, 1B, 12A, 12B; ECON 2; ENG (1A and 1B); FN 50; MATH 10; PHYS 2A, 2B; SP 1; and the following three courses: ART 26, PSYC 1, and SOC 1.

Per Western University of Health Sciences, applicants are not required to have obtained an undergraduate degree (BA/BS), however earning a degree will likely strengthen your application. All applicants must take either the Medical College Admissions Test (MCAT) or the General Graduate Record Examination (GRE).

*Animal Experience Requirements:* Animal-related experience must total at least 500 hours of hands-on experience that goes beyond observation. Appropriate venues include but are not limited to: veterinary practices; animal medical environments; commercial animal production operations; regulatory animal control and humane shelters, animal entertainment (zoos, etc.), or animal research institutions.

Students are advised to contact the Western University of Health Sciences College of Veterinary Medicine for additional information regarding other admissions requirements. Phone: (909) 469-5628, and website [www.westernu.edu](http://www.westernu.edu)

#### **IMPORTANT NOTE**

The preceding examples of selected articulated major programs for representative colleges were based on articulation information and resources available at the time of Saddleback College catalog publication, and are subject to change without notice as articulation is a year-round process. Students are advised to obtain a copy of the catalog for their chosen transfer college, refer to their online catalog and \*ASSIST at [www.assist.org](http://www.assist.org), and meet regularly with a Saddleback College counselor.

The counseling staff and articulation personnel at Saddleback College, in cooperation with instructional divisions, will continue to develop articulation and transfer agreements, especially for those majors about which a number of students inquire.

\*ASSIST is the official California state-wide database listing a selection of campus-approved articulation agreements, G.E. requirements, and information on UC and CSU-transferable courses at [www.assist.org](http://www.assist.org)

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#### **STUDENT RESPONSIBILITY FOR MEETING TRANSFER REQUIREMENTS**

Saddleback College counselors are available to assist students with the transfer process including appropriate course selection and information regarding admissions, general education, and major preparation requirements to prepare for a successful transfer to their college or university of choice. However, it is the responsibility of each student to work with a Saddleback College counselor to decide upon an educational goal, and to maintain a long-range educational plan. Students are advised to obtain a copy of the catalog for their chosen transfer college, and/or refer to their online catalog for any updates as articulation and transfer information is subject to change.