

Last updated 04/05/12. The information in this guide is based on articulation agreements for 2011-12 and is subject to change. The universities may require additional lower division courses beyond those listed or articulated. Please review a current catalog of the campus of your choice and consult with a counselor. The most recent articulation information is available at www.assist.org.

In addition to those listed below, Biology majors are offered at CSU Bakersfield, Channel Islands, Dominguez Hills, Fresno, Fullerton, Long Beach, Los Angeles, Monterey Bay, Northridge, Pomona, San Bernardino, San Diego, San Marcos, & Stanislaus. See catalogs or www.assist.org.

CALIFORNIA STATE UNIVERSITIES

SRJC COURSES	BIOLOGY	CHEM **	PHYSICS	MATH	ADDITIONAL INFORMATION
CSU CHICO <i>B.A./B.S. Degrees</i>	2.1, 2.2+2.3	1A,1B or 4A,4B; 12A	20/20L,21/21L	B.S. take 8A	B.A. add GEOL 1/1L; B.S. add NRM 12. B.S. see CSUC catalog for modifications to GE requirements.
CSU EAST BAY <i>B.A. Degree</i>	2.1+2.2+2.3	60* or 1A+1B or 4A+4B; 8 or 12A+12B	10/10L* or 20/20L+21/21L	one from: 1A, 25, 27, 58	* CHEM 60 & PHYS 10/10L may not be acceptable for admission to graduate and professional schools. Biology Education option: Take CHEM 1A+1B or 4A+4B, PHYS 10/10L, MATH 1A; Add MICRO 60.
<i>B.S. Degree</i>	2.1+2.2+2.3	1A+1B or 4A+4B; 8 or 12A+12B (see additional information)	20/20L+21/21L (see additional information)	1A or 27 or 58 (see additional information) Take 1A & 1B if interested in graduate work	Cell & Molec. Option: CHEM 8 or 12AB <u>not</u> required. Ecology & Conserv: take PHYS 10/10L, MATH 1A required. Forensic Science Option: add ANAT 1+PHYSIO 1; AJ 51A; CHEM 5 (8 or 12AB <u>not</u> required). Micro/Biomedical Lab Option: add CHEM 5 (8 or 12A+12B <u>not</u> required); MATH 1A required. Physiology Option: MATH 1A required.
HUMBOLDT STATE <i>B.S. Degree</i>	2.1,2.2,2.3	1A+1B or 4A+4B Letter grade of C or higher required General or Cell/Molec 12A, 12B	20/20L	8A or 1A/1B; 15	Cell/Molecular: add PHYS 21/21L. Ecology: add <u>one</u> selected from AGRI 60, BIO 25, GEOG 4, GEOL 1/1L. Environmental: add AGRI 60. Marine: add BIO 25. Science Ed/Biol: add GEOL 1/1L, PHYS 21/21L.
CSU SACRAMENTO <i>B.A./B.S. Degrees</i>	2.1+2.2+2.3	1A,1B or 4A,4B; 8 or 12A(+124 at CSUS)	20/20L,21/21L	15 & 1A or 8A	Biomedical: add ANAT 1; CHEM 12A required. Cell & Molec: add CHEM 5#. Clinical or Micro: add CHEM 5#; MICRO 5 or 60 or HLC 55. Forensic Biology: add AJ 51A; CHEM 5#. # Take CHEM 5 unless completing CHEM 4A/4B
SAN FRANCISCO ST <i>B.A. in Biol (General)</i>	2.1+2.2+2.3	1A,1B or 4A,4B; 8	20/20L,21/21L	15 <u>or</u> 1A	ENGL 1B or 5 meets a prerequisite for the upper division writing requirement in the major.
<i>B.S. Biol (Botany, Ecology, Marine Biol & Limnology, or Zool)</i>	2.1+2.2+2.3	1A or 4A; 8	Select 16 - 17 units from the following: CHEM 1B or 4B, MATH 1A, 1B, PHYS 20/20L, 21/21L. ENGL 1B or 5 meets a prerequisite for the upper division writing requirement in the major.		
<i>B.S. Biol (Cell & Molec. or Micro.)</i>	2.1+2.2+2.3	1A,1B or 4A,4B	20/20L,21/21L	1A	Cell & Molec: add CHEM 12A; CS 10 or MATH 1B. Micro: add one course from CS 10, MATH 1B, 1C, or 15. ENGL 1B or 5 meets prereq for upper division writing in major
<i>B.S. Biol (Physiology)</i>	2.1+2.2+2.3	1A,1B or 4A,4B; 8	20/20L+21/21L or 40+42	1A + either 1B or 15	ENGL 1B or 5 meets prereq for upper division writing in major
SAN JOSE STATE <i>B.A. Degree</i> Impacted majors	2.1+2.2+2.3	1A+1B or 4A+4B; 8 or 12A+12B	20/20L,21/21L		General: GEOL 1/1L recommended but not required. Prep for Teaching: GEOL 1 = required major preparation. ENGL 1B or 5 or PHIL 5 or SPCH 9 = prerequisite to upper division writing. 2 units of PE in two different activities are required for graduation.
<i>B.S. Degree</i> Impacted majors	2.1+2.2+2.3	1A+1B or 4A+4B	20/20L,21/21L		Conserv/Organismal or Marine: add CHEM 8 or 12A+12B. Micro: add MATH 1A; CHEM 5; CHEM 12A+12B. Molecular: add MATH 1A; CHEM 12A+12B. Systems Physiol: add MATH 1A; CHEM 12A+12B; CHEM 5 is recommended. ENGL 1B or 5 or PHIL 5 or SPCH 9 = prereq to upper division writing. 2 units of PE in two different activities are required for graduation.
CAL POLY SLO <i>B.S. Biological Sci</i> Impacted major	2.1+2.2+2.3	1A,B or 4A,4B; 8 or 12A	20/20L+21/21L	15 & 1A or 8A&8B	General: MICRO 5. Ecology: add GEOG 4. Molecular & Cellular: add CHEM 12B. Wildlife: add AGRI 60.
<i>B.S. Microbiology</i> Impacted major	2.1+2.2+2.3 (recommended, NOT articulated) & MICRO 5	1A,1B or 4A,4B; 12A,12B	20/20L+21/21L	15 & 1A or 8A*	*For students completing MATH 8A, MATH 8B = approved elective.
IMPORTANT: See Cal Poly transfer selection requirements by major at http://admissions.calpoly.edu/apply/transfer_sc.					
SONOMA STATE <i>B.A. Degree</i> Impacted major	2.1,2.2+2.3	1A,1B or 4A,4B; 12A	20/20L or GEOL 1/1L	15	
<i>B.S. Degree</i> Impacted major	2.1,2.2+2.3	1A,1B or 4A,4B; 12A+12B	20/20L+21/21L or 40+41+42	15 & 1A	

** Note: In some cases, CHEM 12A and 12B have been articulated with upper division courses, and they will be accepted to meet subject matter requirements. However, the universities will not grant upper division units.

BIOLOGY --- continued

Last updated 04/05/12. The information in this guide is based on articulation agreements for 2011-12 and is subject to change. The universities may require additional lower division courses beyond those listed or articulated. Please review a current catalog of the campus of your choice and consult with a counselor. The most recent articulation information is available at www.assist.org.

In addition to those listed below, Biology majors are offered at the following UC campuses: Irvine, Merced, and Riverside. Please refer to the university catalogs or www.assist.org.

UNIVERSITY OF CALIFORNIA

SRJC COURSES	BIOLOGY	CHEM **	PHYSICS	MATH	ADDITIONAL INFORMATION
UC Berkeley <i>B.A. Integrative</i>	2.1+2.2+2.3 Required for admission	1A or 4A; 12A,12B Required for admission (1B or 4B = prereq to 12A)	40+41+42 Required for admission	1A or 8A Required for admission	Complete either (1) L&S Requirements in Reading & Composition, Quantitative Reasoning & Foreign Language, or (2) IGETC by the spring term preceding fall UCB enrollment. UCB strongly recommends continuing the calculus sequence. Additional courses in math, statistics, biochemistry, accelerated computing skills, and ability to speak two languages may be helpful in graduate or professional studies.
<i>B.A. Molecular & Cell</i>	2.1+2.2+2.3 Required for admission	1A,1B or 4A,4B; 12A,12B Required for admission	40+41+42 Strongly recommended prior to transfer (43 optional)	1A,1B Required for admission	Complete either (1) L&S Requirements in Reading & Composition, Quantitative Reasoning & Foreign Language, or (2) IGETC by the spring term preceding fall UCB enrollment.
<i>B.S. Genetics & Plant or B.S. Microbiol Biol</i>	2.1+2.2+2.3 Required for admission	1A or 4A; 12A,12B Required for admission (1B or 4B = prereq to 12A)	40+41	1A,1B or 8A,8B Required for admission	ENGL 1A+1B+5 (or IGETC) required for admission. IGETC cert will fulfill English, Humanities, & Social Sciences Breadth or take at least 15 semester units from fields such as economics, history, philosophy, art, music, political science, and/or foreign language (max 6 units allowed). Genetics & Plant: add MATH 15 or ENGR 6. Microbial: add MATH 15.
<i>B.S.Molecular Environmental</i>	2.1+2.2+2.3 Required for admission	1A or 4A; 12A,12B Required for admission (1B or 4B = prereq to 12A)	40+41; Pre-med also take 42	1A+1B* or 8A+8B* Required for admission	ENGL 1A+1B+5 required for admission. Select one: BIO 12, ENVS 12 or SOCS 12. One course in Humanities; One course in Social & Behavioral Sciences. *Biodiversity, Ecology or Organisms & Environment concentrations allow choice of MATH 1B or 8B or 15.
UC Davis <i>A.B./B.S. Degrees</i> (For Exercise Biology, see Transfer Major Guide for Kinesiology)	2.1, 2.2+2.3 Completion of entire series before transfer strongly recommended	1A+1B or 4A+B Complete before transfer 8 or 12A+12B Completion before transfer strongly recommended	20/20L+21/21L Completion of series before transfer highly recommended	1A,1B or 8A,8B* Complete before transfer	Minimum overall GPA of 2.8 to be competitive. See www.assist.org for course and grade requirements by major. See an SRJC counselor about TAG (Transfer Admission Guarantee). GPA and other requirements may differ. * Coll of Biol Sci will accept MATH 8A, 8B only for transfers admitted prior to Fall 2013. After that, 1A, 1B will be required. This does not affect majors in the Coll of Ag & Env Sci such as Animal Biology or Biotechnology. AB Biol Sci, and BS Animal Biol: add MATH 15. BS Biol Sci, BS Cell Biol, BS Evol, Ecol & Biodiv, BS Genetics, BS Micro, BS Neuro, Physio & Behav, & BS Plant Biol: MATH 1C recommended. AB Evol, Ecol & Biodiv: take CHEM 8; Physics not articulated. AB Plant Biol: take CHEM 8; add MATH 15; Calculus not required.
UCLA <i>B.S. Degree</i>	2.1,2.2+2.3	1A+1B or 4A+4B; 12A+12B	40+41+42+43	1A+1B (or 8A+8B + 3C at UCLA)	Highly selective majors. For more info on minimum preparation prior to transfer, see www.assist.org . Psychobiology: add PSYCH 1A. Computational & Systems Biology: see www.assist.org .
UC San Diego <i>B.S. Degree</i>	2.1+2.2+2.3	1A+1B or 4A+4B; 12A+12B	40,41,42	1A,1B,1C	For UCSD information on admission to Biology majors, see biology.ucsd.edu/undergrad/enrollmentmanagement.html . Bioinformatics: add CS 17.11; MATH 5.
UC Santa Barbara <i>B.A./B.S. Degrees</i>	2.1+2.2+2.3 Required for admission	1A+1B or 4A+4B Required for admission 12A+12B Strongly recommended	20/20L+21/21L Strongly recommended	8A or 1A+1B; 15* or 2+5 Strongly recommended	2.7 or better GPA required in prerequisite courses with no grades less than "C". See www.assist.org for admission selection criteria. * Biopsychology: add PSYCH 1A, 1B; requires MATH 15. Zoology: does not require organic chem; however, may be required by graduate or professional schools. Biochemistry & Molecular Biology, see the transfer major guide for BIOCHEMISTRY.
UC Santa Cruz <i>B.A. or B.S. Biology; B.A. BioEd concen.; B.S. Molecular, Cell, & Developmental</i>	2.1,2.2+2.3	1A+1B or 4A+4B; 12A+12B	40+41+42	15; 1A+1B or 8A+8B	For more info see the Physical & Biological Sciences web site: http://undergrad.pbsci.ucsc.edu/programs/index.html or the UCSC catalog: http://reg.ucsc.edu/catalog/index.html .
<i>B.S. Ecology & Evolu; B.S. Marine Biology; B.S. Plant Science</i>	2.1+2.2+2.3	1A+1B or 4A+4B; UCSC recommends taking organic chem. If possible	40+41+42	1A+1B or 8A+8B (stat course not articulated)	Biochemistry & Molecular Biology, see the transfer major guide for BIOCHEMISTRY.
<i>B.S. Human Biology; B.S. Neuroscience</i>	2.1+2.2+2.3	1A+1B or 4A+4B; 12A+12B	40+41+42	1A+1B* or 8A+8B	* Human Bio: take MATH 1A, 1B, 1C, MATH 15 and Spanish. Neuroscience: stat course is not articulated.

** Note: In some cases, CHEM 12A and 12B have been articulated with upper division courses, and they will be accepted to meet subject matter requirements. However, the universities will not grant upper division units.