

Last updated 01/02/08. The information in this guide 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 <http://www.assist.org/>.

In addition to those listed below, Biology majors are offered at the following CSUs: Bakersfield, Channel Islands, Dominguez Hills, Fresno, Fullerton, Long Beach, Los Angeles, Monterey Bay, Northridge, Pomona, San Bernardino, San Marcos, and Stanislaus. Please see the university catalogs or <http://www.assist.org/>.

**CALIFORNIA STATE UNIVERSITIES**

SRJC COURSES	BIOLOGY	CHEM **	PHYSICS	MATH	ADDITIONAL INFORMATION
<b>CSU CHICO</b> <i>B.S. Degree</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A	2A/3A/2B/3B	1A	Please refer to most recent CSUC catalog for modifications to GE requirements for Biological Sciences & Microbiology majors.
<b>CSU EAST BAY</b> <i>B.A. Degree</i>	2.1/2.2/2.3	1A/1B or 4A/4B + 8 or 12A/12B <u>OR</u> 60 + 1603 at CSUEB	10/10L or 2A/3A/2B/3B	one from: 1A, 25, 27, 58	
<i>B.S. Degree</i>	2.1/2.2/2.3	1A/1B or 4A/4B; 8 or 12A/12B	2A/3A/2B/3B	one from: 1A, 27, 58	<b>Biomedical Lab Option</b> , add CHEM 5. <b>Cell &amp; Molec. Option</b> , CHEM 8 or 12AB <u>not</u> required. <b>Ecology &amp; Conservation Option</b> , take PHYS 10/10L; <u>no</u> math requirement. <b>Forensic Science Option</b> , add ANAT 1 & PHYSIO 1; AJ 51A; CHEM 5; CHEM 8 or 12AB <u>not</u> required. <b>Physiology Option</b> requires MATH 1A.
<b>HUMBOLDT STATE</b> <i>B.S. Degree</i>	2.1/2.2/2.3	1A or 4A	2A/3A	15 & 8A or 1A/1B	<b>Cell/Molecular</b> , add CHEM 1B or 4B; PHYS 2B/3B. <b>Ecology</b> , add one: AGRI 60, GEOG 4, GEOL 1/1L. <b>Environmental</b> , add CHEM 1B or 4B; AGRI 60. <b>Microbiology</b> , add CHEM 1B or 4B.
<b>CSU SACRAMENTO</b> <i>B.A./B.S. Degrees</i> Based on 06-08 catalog & 06-07 articulation.	2.1/2.2/2.3; *MICRO 5 or 60	1A/1B or 4A/4B; 8	2A/3A/2B/3B	15 & 1A or 8A	*MICRO = content credit, but no upper div units. <b>Clinical Lab Sci, Forensic Sci, Microbiol, &amp; Molec Bio</b> , add CHEM 5 unless completing CHEM 4A/4B. <b>Forensic Sci</b> also add AJ 51A.
<b>SAN DIEGO STATE</b> <i>B.A./B.S. Degrees</i> <b>Impacted majors</b> Based on 07-08 catalog & 06-07 articulation.	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A	2A/3A/2B/3B	1A or 8A/8B	Complete courses with minimum 2.70 gpa and <u>letter</u> grades of "C" or higher; cumulative gpa must = 2.60 or higher. Complete sequence courses at SRJC. <b>B.A.</b> requires completion of a 3 <sup>rd</sup> college semester foreign language for graduation. <b>Ecology emphasis</b> , CIS 10 recommended. <b>Biology/Bioengineering</b> , see <a href="http://www.assist.org/">http://www.assist.org/</a> .
<b>SAN FRANCISCO ST</b> <i>B.A. in Biol (General)</i>	2.1/2.2/2.3	1A/1B or 4A/4B; 8	2A/3A/2B/3B	15 <u>or</u> 1A	
<i>B.S. Biol (Botany, Ecology, Marine Biol &amp; Limnology, or Zool)</i>	Same	1A or 4A; 8	Choose 16 - 17 units from the following: CHEM 1B or 4B, MATH 1A, 1B, PHYS 2A/3A, 2B/3B		
<i>B.S. Biol (Cell &amp; Molec or Micro)</i>	Same	1A/1B or 4A/4B	2A/3A/2B/3B	1A	Choose one course from CIS 10, MATH 1B, 2A, or 15. <b>Cell &amp; Molec</b> , additional preparation = CHEM 8; LIR 10 or 30 or 60A or 60B.
<i>B.S. Biol (Physiology)</i>	Same	1A/1B or 4A/4B; 8	2A/3A/2B/3B or 40/42	1A + either 1B or 15	
<b>SAN JOSE STATE</b> <i>B.A. Degree</i>	2.1/2.2/2.3	1A/1B; 8 or 12A/12B	2A/3A/2B/3B		ENGL 1B is required preparation for the major.
<i>B.S. Degrees</i>	2.1/2.2/2.3		2A/3A/2B/3B		ENGL 1A & 1B are required preparation for all concentrations. <b>Conserv/Organismal or Marine</b> , add CHEM 1A/1B & 8 or 12A/12B. <b>Microbiology or Molecular</b> , add MATH 1A. <b>Systems Physiology</b> , add MATH 1A; CHEM 5 is recommended.
<b>CAL POLY SLO</b> <i>B.S. Biological Sci</i> <b>Impacted major</b>	2.1/2.2/2.3; MICRO 5	1A/1B or 4A/4B; 8 or 12A	2A/3A/2B/3B	15 & 1A or 8A/8B	<b>Molec &amp; Cellular</b> , add CHEM 12B.
<i>B.S. Microbiology</i> <b>Impacted major</b>	2.1 & 2.2 (recommended, not articulated) & MICRO 5	1A/1B(5) or 4A/4B; 12A/12B	2A/3A/2B/3B	15 & 1A or 8A	
For Cal Poly transfer selection requirements by major, see <a href="http://www.ess.calpoly.edu/admiss/undergrad/prospective_transfer.htm">http://www.ess.calpoly.edu/admiss/undergrad/prospective_transfer.htm</a> .					
<b>SONOMA STATE</b> <i>B.A. Degree</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A	2A/3A or GEOL 1/1L	15	
<i>B.S. Degree</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A/12B	2A/3A/2B/3B	15 & 1A	FDNT 10 (content credit but will not meet upper division unit requirements).

\*\* Note: The prerequisite to CHEM 12A is CHEM 4B or 5. 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**

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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 <http://www.assist.org/>.

**UNIVERSITY OF CALIFORNIA**

SRJC COURSES	BIOLOGY	CHEM **	PHYSICS	MATH	ADDITIONAL INFORMATION
<b>UC Berkeley</b> <i>B.A. Integrative</i>	2.1/2.2/2.3 Required for admission	1A/1B(5) or 4A/4B; 12A/12B Required for admission	40/41/42 Required for admission	1A or 8A Required for admission	Complete L&S Requirements or IGETC by the spring term preceding fall enrollment at UCB. UCB strongly recommends one-year calc sequence. Additional courses in math, stat, biochemistry, history of biology, and multiple languages may be helpful for graduate or professional studies.
<i>B.A. Molecular &amp; Cell</i>	2.1/2.2/2.3 Required for admission	1A/1B(5) or 4A/4B; 12A/12B Required for admission	40/41/42 (43 optional) Recommended prior to transfer	1A/1B Required for admission	Complete L&S Requirements or IGETC by the spring term preceding fall enrollment at UCB.
<i>B.S. Genetics &amp; Plant</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A/12B	40/41	1A/1B or 8A/8B	Also required: MATH 15 or ENGR 6. Either complete IGETC or take ENGL 1A, 1B, & 5 and Humanities & Social Sciences Breadth [15 sem units from fields such as econ, hist, philos, art, music, political sci and/or foreign lang (max 6 units allowed)].
<i>B.S. Microbiol</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A/12B	40/41	15 and 1A/1B or 8A/8B	Either complete IGETC or take ENGL 1A, 1B, & 5 + Humanities & Social Sciences Breadth [15 sem units from fields such as econ, hist, philos, art, music, political sci and/or foreign lang (max 6 units allowed)].
<i>B.S. Molecular Environ</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A/12B	40/41/42	15 and 1A/1B or 8A/8B	Select one: BIO 12, ENVS 12 or SOCS 12. Fulfill all lower division major requirements. Complete ENGL 1A, 1B & 5; One course in Humanities; One course in Social/Behav Sci.
<b>UC Davis</b> <i>A.B./B.S. Biol Sci</i>  (For Exercise Biology, see Transfer Major Guide for Kinesiology)	2.1/2.2/2.3 Complete at least one before transfer. Completion of entire series strongly recommended	1A/1B or 4A/B Complete before transfer  8 or 12A/12B Completion before transfer highly recommended	2A/3A/2B/3B Completion of series before transfer recommended	8A/8B or 1A/B Complete before transfer	Selective majors criteria requires minimum overall GPA of 2.8 to be competitive or 2.9 for Transfer Admission Guarantee (TAG). See <a href="http://www.assist.org">www.assist.org</a> for more specific information on minimum course and grade requirements by major. See an SRJC counselor about TAG. <b>B.A. &amp; B.S. Biol Sci, B.S. Animal Biol, B.S. Cell Biol, &amp; B.S. Microbiol:</b> add MATH 15. <b>B.S. Biotechnology:</b> add one from AGBUS 2, CIS 5 or CIS 16A.
<b>UCLA</b> <i>B.S. Biology</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A/12B	40/41/42/43	15 and 1A/1B (or 8A/8B + 3C at UCLA)	Highly selective major. For more info on minimum preparation prior to transfer, see <a href="http://www.assist.org">www.assist.org</a> . <b>Psychobiology,</b> add PSYCH 1A.
<b>UC San Diego</b> <i>B.S. Biology</i>	2.1/2.2/2.3 Recommended (articulation under review)	1A/1B(5) or 4A/4B; 12A/12B	40/41/42	1A/1B/2A	See <a href="http://www.assist.org">www.assist.org</a> for selection criteria. <b>Bioinformatics,</b> add CIS 17; MATH 5
<b>UC Santa Barbara</b> <i>B.A./B.S. Biol Sci</i>	2.1/2.2/2.3	1A/1B(5) or 4A/4B; 12A/12B	2A/3A/2B/3B	8A/8B or 1A/1B or 16+ 34B at UCSB; 15 or 2B + 5	2.7 or better GPA required in prerequisite courses with no grades less than "C". See <a href="http://www.assist.org">www.assist.org</a> for admission selection criteria. <b>Biochem/Molec,</b> requires MATH 1A/1B/2B/5
<b>UC Santa Cruz</b> <i>B.A. Biology or Neurosci &amp; Behavior</i>	2.1/2.2/2.3 Recommended (articulation under review)	1A/1B(5) or 4A/4B; 12A/12B	2A/3A/2B/3B preferred (or 40/41/42 if begin physics series in F06 or later)	8A/8B or 1A/1B	<b>Neurosci &amp; Behav,</b> add MATH 15.  All UCSC information for both B.A. and B.S. degrees based on 2006-08 catalog and 2006-07 articulation. Dept website: <a href="http://www.biology.ucsc.edu/">http://www.biology.ucsc.edu/</a> .
<i>B.S. Ecology &amp; Evolution, Marine Bio, or Plant Science</i>	Same	1A/1B or 4A/4B	2A/3A/2B/3B	8A/8B or 1A/1B	
<i>B.S. Biology, Biochem &amp; Molec; Molec, Cell, &amp; Devel, Neurosci &amp; Behavior</i>	Same	1A/1B(5) or 4A/4B; 12A/12B	40/ 41/42	8A/8B or 1A/1B; 2A	<b>Biochem &amp; Molec,</b> strongly encouraged completing Organic Chem before transfer. <b>Neurosci &amp; Behavior,</b> add MATH 15.

\*\* Note: The prerequisite to CHEM 12A is CHEM 4B or 5. 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.