



BIOLOGY MAJOR

Transfer Requirements

The following requirements for the major are subject to change without notice. To assure that this information is current, you should consult with a Biology counselor, or review articulation agreements at www.assist.org

NOTE: The BS Degree is more science subject intensive. The BA Degree may be more cross-disciplinary and allow for more elective choices/flexibility. If the student is a pre health profession major like pre medical they likely will need one year of calculus; therefore, Math 190 and 191. Due to the competitive nature of the Biology major, students are advised to complete as many lower division courses as possible prior to transfer. Please see a counselor for more information.

****Math 160 was last offered summer 2015. Math 161 was last offered spring 2016. Students who have not started the math calculus sequence should meet with a counselor to discuss math options and course selection.**

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (CSUDH) (2016-2017)

BA Biology: Biology 101,102,103; Chemistry 1A, 1B; Math 150; Physics 2A and 2B or 3A and 3B

BS Biology: Biology 101, 102; Chemistry 1A, 1B; Math 150; Math 165 or 190; Physics 1A, 1B, 1C and 1D or Physics 2A and 2B or 3A and 3B

Option: **BS Cellular and Molecular Biology:** add Biology 103

BS Environmental Biology: add Biology 103

BS Microbiology: no additional coursework

CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF) (2015-2016)

BS Biological Sciences: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 165 and Math 338 at CSUF or Math 190 and 191; Physics 2A and 2B or Physics 3A and 3B

Option: **BS Cell and Developmental Biology; BS Ecology and Evolutionary Biology; BS Marine Biology;**

BS Molecular Biology and Biotechnology; BS Plant Biology: no additional coursework

CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB) (2016-2017)

BS Microbiology: Biology 101, 102; Chemistry 1A, 1B; Math 165 or 190; Physics 2A and 2B or Physics 3A and 3B or Physics 1A and 1C or Physics 1A, 1B and 1C;

BS Biology: Biology 101, 102; Chemistry 1A, 1B; Math 165 or 190; Physics 2A and 2B or Physics 3A and 3B or Physics 1A and 1C or Physics 1A, 1B and 1C

Options: **BS Biology Education:** add Geology 6 or 1 and 3; Microbiology 33 or Physics 2A-2B; Math 165 or Math 190

BS Molecular Cell Biology and Physiology: no additional courses

BS Organismal Biology: no additional requirements

NOTE: Major specific admissions requirements, please visit:

<http://web.csulb.edu/depts/enrollment/admissions/transfer-major-criteria/index.html>

CALIFORNIA STATE UNIVERSITY, LOS ANGELES (CSULA) (2016-2017)

BS Biology: English 1C; Biology 101, 102, 103; Chemistry 1A, 1B, Chemistry 7A, 7B; Physics 2A and 2B or Physics 3A and 3B; Math 190 and 191

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (CSUN) (2016-2017)

BA Biological Sciences: Biology 101, 102; Chemistry 1A, 1B, 7A; Math 170 and 180 or Math 130 and 170; Physics 2A and 2B or Physics 3A and 3B

BS Biological Sciences: Biology 101, 102; Chemistry 1A, 1B; Math 165 or 190; Physics 2A and 2B or Physics 3A and 3B

Options: **BS Biotechnology/Medical Technology:** no additional courses

BS Cell and Molecular Biology: add Math 191

BS Ecology and Environmental Biology: add Chemistry 7A, 7B

BS Microbiology: highly recommended Math 150; Math 191

BS Marine Biology: add Chemistry 7A, 7B

SAN DIEGO STATE UNIVERSITY (SDSU) (2016-2017)

BA/BS Biology: Biology 101, 102; Chemistry 1A, 1B, 7A; Math 190; Physics 2A and 2B or Physics 3A and 3B

Options: **BS Single Subject Teaching; BS Cellular and Molecular Biology; BS Ecology, Evolution and Systematics; BS Marine Biology; BS Zoology:** no additional courses

BS Microbiology: Biology 101, 102; Chemistry 1A, 1B, 7A; Math 190; Physics 2A and 2B or 3A and 3B

Option: **BS Clinical Laboratory Science and Public Health:** no additional coursework

CALIFORNIA STATE UNIVERSITY POMONA (CPP) (2016-2017)

BS Biology: Biology 101, 102; Chemistry 1A, 1B; Chemistry 21A, 21B; Math 150; Math 190; Physics 2A and 2B or Physics 3A and 3B or Physics 1A, 1B and 1C; English 1A; English 1C or Philosophy 105 or 106; Psychology 5 or 7; Biology 8; Microbiology 33

Options: **BS Microbiology:** does not require Chemistry 21A, 21B; electives Chemistry 7A, 7B

BS Botany: no additional requirements

BS Zoology: does not require Micro 33; add Biology 11

CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO (SLO) (2016-2017)

BS Biological Sciences: Biology 101, 102; Chemistry 1A, 1B; Math 150 or Psychology 9A or Sociology 109; Math 190 ; Physics 2A and 2B or Physics 3A and 3B

Options: **Anatomy and Physiology:** add Microbiology 33

General Biology: add Microbiology 33

Ecology: add Geography 1; Microbiology 33

Marine Biology and Conservation: no additional coursework

Molecular and Cellular Biology: Microbiology 33

Wildlife and BioDiversity Conservation: no additional coursework

UNIVERSITY OF CALIFORNIA BERKELEY (UCB) (2016-2017)

NOTE: IGETC or UCB's L&S requirements in Reading and Composition, Quantitative Reasoning, and Foreign Language MUST be completed by the spring semester prior to fall transfer

BA Integrative Biology: Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 1A, 1B and 1C or Physics 3A and 3B (this major does not accept AP, IB, A-level exams to meet major preparation)

BA Molecular and Cell Biology: Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 1A, 1B and 1C or Physics 3A and 3B (this major discourages the use of AP, IB, A-level credit to waive major preparation as major health related programs do not accept AP/IB scores in lieu of coursework completed at a college or university)

Options: **BS Biochemistry and Molecular Biology; BS Cell and Developmental Biology; BS Genetics and Development;**

BS Immunology; BS Neurobiology: no additional requirements

NOTE: BS degrees below are under the College of Natural Resources, IGETC is not required, but if completed and certified would meet UCB's R1A, R1B, and all Humanities and Social Science requirements

BS Microbial Biology: Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191; Physics 3A or Physics 1A and 1B; Math 150; English 1A, 1B

BS Molecular Environmental Biology: Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191 Physics 3A or Physics 1A and 1B; Math 150; English 1A, 1B

BS Genetics and Plant Biology: Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191; Physics 3A or Physics 1A and 1B; Math 150; English 1A, 1B

UNIVERSITY OF CALIFORNIA DAVIS (UCD) (2016-2017)

AB Plant Biology: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 150

AB Biological Sciences; BS Animal Biology: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191; Physics 2A and 2B or Physics 3A and 3B; (Math 150 or Psychology 9A required for animal biology)

BS Biological Sciences; BS Cell Biology; BS Genetics and Genomics; BS Neurobiology, Physiology and Behavior; AB and BS Evolution, Ecology and Biodiversity; AB and BS Microbiology: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191; Physics 2A and 2B or Physics 3A and 3B

BS Global Disease Biology: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Physics 2A and 2B or Physics 3A and 3B; Math 150 or Psychology 9A

BS Marine and Coastal Science (Ecology and Organismal Biology): Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191; Physics 2A and 2B or Physics 3A and 3B or Physics 1A, 1B, 1C and 1D

BS Plant Biology: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 2A and 2B or 3A and 3B

UNIVERSITY OF CALIFORNIA, IRVINE (UCI) (2016-2017)

BS Biological Sciences: required Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; additional courses approved for major: Chemistry 21B; Biology 103; Math 190; Math 191 or 150 or Psychology 9A or Sociology 109; Physics 3A and 3B or Physics 1A and 1C

Option: **BS Biochemistry and Molecular Biology; BS Developmental and Cell Biology; BS Ecology and Evolutionary**

Biology; BS Genetics; BS Microbiology and Immunology; BS Neurobiology: no additional requirements

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) (2016-2017)

BS Biology: Biology 101, 102, 103 (accepted for UCLA's LIFESCI 3); Chemistry 1A, 1B, 7A, 7B; Math 150; Math 190, 191; Physics 3A and 3B or 1A, 1C and 1D;

Options: **BS Marine Biology:** add Ocean 10

BS Psychobiology: add Psychology 5

BS Biophysics: add Math 220 and 270; only Physics 1A, 1C, 1D

BS General Biology; BS Molecular, Cell, and Developmental Biology; BS Ecology, Behavior and Evolution; BS Neuroscience; BS Physiological Science: no additional coursework

BS Microbiology, Immunology, and Molecular Genetics: Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B; Physics 3A and 3B or Physics 1A, 1C and 1D;

NOTE: Students MUST complete a minimum of one year of biology, one year of chemistry, one year of calculus, and at least one semester of organic chemistry by the end of the spring term prior to transfer to be competitive for admission. It is strongly recommended to complete the second semester of organic chemistry and one year of calculus based physics for admission consideration. Students will NOT be able to change from a non-life science major into a life science major after admission to UCLA.

UNIVERSITY OF CALIFORNIA, RIVERSIDE (UCR) (2016-2017)

BA and BS Biology and BS Biological Science; BA and BS Cell, Molecular and Developmental Biology; BS Biochemistry option in Biology; BS Microbiology; BA and BS Plant Biology: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 3A and 3B or Physics 1A, 1B, and 1C

BA and BS Neuroscience: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Math 150 or Psychology 9A; Physics 3A and 3B or Physics 1A, 1B and 1C

UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) (2016-2017)

BS Biology: Biology 101, 102; Math 190, 191 and 220 or 150 (preferred for fall 2018 admits); Chemistry 1A, 1B, 7A, 7B; Physics 3A and 3B or 1A, 1B and 1C

Options: **BS Specializations in Bioinformatics:** add Math 270 and Computer Science 2, 3

BS Human Biology: no additional coursework

BS Biochemistry and Molecular Synthesis: Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1C; Physics 1B or 1D

BS Ecology, Behavior and Evolution: Biology 101, 102; Math 190, 191; Physics 3A, 3B; Economics 2

BS Microbiology; BS Physiology and Neuroscience: Biology 101, 102; Math 190, 191 and 220 or 150; Chemistry 1A, 1B, 7A, 7B; Physics 3A, 3B or Physics 1A, 1B, 1C

BS Marine Biology: Biology 101, 102; Chemistry 1A, 1B; Math 190, 191; Physics 3A and 3B or Physics 1A, 1B and 1C

BS Molecular Biology: Biology 101, 102; Math 190, 191 and 220; Chemistry 1A, 1B, 7A, 7B; Physics 3A and 3B or Physics 1A, 1B and 1C

NOTE: Major specific admissions requirements, please visit: <http://admissions.ucsd.edu/MajorPrep>

LOYOLA MARYMOUNT UNIVERSITY (LMU) (2015-2016)

BA: Biology 101, 102; Chemistry 1A, 1B, 7A; Math 190, plus one additional ECC math course

BS: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 3A, 3B

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) (2016-2017)

BA Human Biology: Biology 101, 102; Math 190, 191; Chemistry 1A, 1B, 7A, 7B

BA Neuroscience: Biology 102; Chemistry 1A; Math 190; Psychology 5

BS Biophysics: Biology 101, 102; Math 190, 191, 220; Chemistry 1A, 1B, 7A, 7B; Physics 1A, 1B, 1C, 1D

BS Human Biology: Biology 101, 102; Chemistry 1A, 1B; Physics 2A or 3A; Math 190; select 16 units from: Chemistry 7A, 7B, Math 150, Math 191, Physics 2A, 3A

BA and BS Biological Sciences: Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190; Physics 1A, 1B and 1C or Physics 3A and 3B or Physics 2A and 2B