



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 STEM 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) (2022-2023)

BA Biology: Biology 110, 120, 130; Chemistry 1A, 1B; Math 150; Physics 2A and 2B or 3A and 3B

BS Biology: Biology 110, 120, 130; Chemistry 1A, 1B; Math 150; Math 165 or 190; Physics 1A, 1B, 1C and 1D or Physics 2A and 2B or 3A and 3B

Options: **BS Cellular and Molecular Biology; BS Ecology and Environmental Biology; BS**

Microbiology: no additional coursework

CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF) (2022-2023)

BS Biological Sciences: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190 and 191; Physics 2A and 2B or Physics 3A and 3B

Concentrations: **Cell and Developmental Biology; Ecology and Evolutionary Biology; Marine**

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

CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB) (2022-2023)

BS Microbiology: Biology 110, Biology 120 or Biology 8 and 11; Chemistry 1A, 1B, 7A-7B; 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 110, Biology 120 or Biology 8 and 11; Chemistry 1A, 1B; 7A-7B; 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

BS Molecular Cell Biology and Physiology: no additional courses

BS Organismal Biology: no additional courses

BS Marine Biology: add Biology 17 and 18

NOTE: Major specific admissions requirements, please visit: <https://www.csulb.edu/admissions/transfer-admission-eligibility>

CALIFORNIA STATE UNIVERSITY, LOS ANGELES (CSULA) (2022-2023)

BS Biology: Biology 110, 120; Chemistry 1A, 1B; Physics 2A and 2B or Physics 3A; Math 180 (major-specific admission requirement); Chemistry 7A (elective)

Options: **BS Ecology, Evolution, and the Environment (EEE); BS Physiology:** no additional courses

BS Molecular, Cellular and Developmental (MCD) Biology: add Chemistry 7A (elective)

BS Microbiology: add Anatomy 32 and Physiology 31 (electives)

NOTE: Major specific admissions requirements, please visit: <https://www.calstatela.edu/admissions/major-specific-criteria>

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (CSUN) (2022-2023)

BA Biological Sciences: Biology 110, 120; Chemistry 1A, 1B; Math 170 and 180 or Math 130 and 170; Physics 2A and 2B or Physics 3A and 3B; Math 165 or 190 (elective)

BS Biological Sciences: Biology 110, 120; 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: highly recommended Math 191

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

BS Microbiology: highly recommended Math 150; highly recommended Math 191

BS Marine Biology: add Chemistry 7A, 7B

CALIFORNIA STATE UNIVERSITY POMONA (CPP) (2022-2023)

BS Biology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 165 or 190; Physics 2A and 2B or Physics 3A and 3B or Physics 1A and 1C; English 1A; English 1C or Philosophy 105 or 106. Emphasis Electives (consult with advisor): Biology 8; Microbiology 33, Anatomy 32, Physiology 31, Biology 11

Options: **BS Biotechnology:** add Microbiology 33; remove Chemistry 7A and 7B

BS Environmental Biology: Breadth electives: Geography 8; Geology 1 and 3

NOTE: Major specific admissions requirements, please visit:

<https://www.cpp.edu/admissions/transfer/impacted-majors.shtml>

CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO (CPSLO) (2022-2023)

BS Microbiology: Biology 110, 120; Microbiology 33; Chemistry 1A, 1B; Math 150 or Psychology 109A or Sociology 109A; Math 190; Physics 2A and 2B or Physics 3A and 3B

BS Biological Sciences: Biology 110, 120; Chemistry 1A, 1B; Math 150 or Psychology 109A or Sociology 109A; Math 190; Physics 2A and 2B or Physics 3A and 3B. Electives: Computer Science 1 or 3; Geography 1, 8; Microbiology 33

Concentrations: **Anatomy and Physiology; Molecular and Cellular Biology; Ecology, Evolution, Biodiversity and Conservation:** no additional courses

NOTE: Major specific admissions requirements, please visit:

<https://www.calpoly.edu/admissions/transfer-student/selection-criteria/major-specific-transfer-criteria>

UNIVERSITY OF CALIFORNIA BERKELEY (UCB) (2022-2023)

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 for majors in the College of Letters and Sciences

BA Integrative Biology (College of Letters and Sciences): Biology 110, 120, 130; 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 (College of Letters and Sciences): Biology 110, 120, 130; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 1A, 1B and 1C **or** Physics 3A and 3B

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 Genetics and Plant Biology (College of Natural Resources): Biology 110, 120, 130; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 1A and 1B or Physics 3A; Math 150; English 1A, 1B

BS Microbial Biology (College of Natural Resources): Biology 110, 120, 130; Chemistry 1A, 1B, 7A, 7B; 190, 191; Physics 1A and 1B or Physics 3A; Math 150; English 1A, 1B

BS Molecular Environmental Biology (College of Natural Resources): Biology 110, 120, 130; Chemistry 1A, 1B, 7A, 7B; Math 190 and Math 191 or 150 or Computer Science 8; Physics 1A, 1B, 1C or Physics 3A and 3B; English 1A, 1B

NOTE: BS degree below is under the College of Chemistry, IGETC is not required, but if completed and certified would meet UCB's R1A, R1B, and Language Other Than English (LOTE) requirement

BS Chemical Biology (College of Chemistry): Biology 110, 120, 130; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C, 1D or Physics 3A and 3B; English 1A, 1B

UNIVERSITY OF CALIFORNIA DAVIS (UCD) (2022-2023)

AB Plant Biology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 150 (MATH 190 and 191 required for selective admission into the College of Biological Sciences. Choice of A.B. or B.S. chosen after enrollment at UCD).

AB Biological Sciences: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191 and 220; Physics 2A and 2B or Physics 3A and 3B; Math 150 or Psychology 109A or Sociology 109A

AB Evolution, Ecology and Biodiversity: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, and 220

AB Molecular and Medical Microbiology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 2A and 2B or Physics 3A and 3B

BS Animal Biology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191 and 220; Physics 2A and 2B or Physics 3A and 3B; Math 150 or Psychology 109A or Sociology 109A

BS Biological Sciences; BS Evolution, Ecology and Biodiversity; BS Molecular and Medical Microbiology; BS Plant Biology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, and 220; Physics 2A and 2B or Physics 3A and 3B

BS Cell Biology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, and 220; Physics 2A and 2B or Physics 3A and 3B or Physics 1A, 1B, 1C, and 1D

BS Global Disease Biology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Physics 2A and 2B or Physics 3A and 3B; Math 150 or Psychology 109A or Sociology 109A

BS Neurobiology, Physiology and Behavior: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, and 220; Physics 2A and 2B or Physics 3A and 3B or Physics 1A, 1B, 1C, and 1D

BS Marine and Coastal Science (Marine Ecology and Organismal Biology): Biology 110, 120; 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

NOTE: Selective major requirements, please visit:

<https://www.ucdavis.edu/admissions/undergraduate/transfer/selective-major-requirements/>

UNIVERSITY OF CALIFORNIA, IRVINE (UCI) (2022-2023)

BS Biological Sciences: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; additional courses approved for major (not required for admission): Chemistry 21B; Biology 130; Math 190; Math 191 or 150 or Sociology 109A; Physics 3A and 3B or Physics 1A and 1C

Option: **BS Biochemistry and Molecular Biology; BS Biology Education; BS Developmental and Cell Biology; BS Ecology and Evolutionary Biology; BS Exercise Sciences; BS Genetics; BS Human Biology; BS Microbiology and Immunology; BS Neurobiology:** no additional requirements

NOTE: Major specific admissions requirements, please visit:

<https://www.admissions.uci.edu/apply/transfer/requirements.php>

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) (2022-2023)

BS Biology: Biology 110, 120; 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 101, Math 220 instead of Math 150

BS Human Biology and Society: add Anthropology 1, Math 220

BS Microbiology, Immunology, and Molecular Genetics; BS Molecular, Cell, and Developmental Biology: add Math 220

BS Ecology, Behavior and Evolution; BS Neuroscience; BS Physiological Science: no additional coursework

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. Transfer Admission Guide: <https://admission.ucla.edu/apply/transfer/deciding-on-major>

UNIVERSITY OF CALIFORNIA, RIVERSIDE (UCR) (2022-2023)

BA and BS Biology; BA and BS Cell, Molecular and Developmental Biology; BS Microbiology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 3A and 3B or Physics 1A, 1B, and 1C

BA and BS Plant Biology: Biology 110, 120; Chemistry 1A, 1B; Math 190, 191

BA and BS Neuroscience: Biology 110, 120; Chemistry 1A, 1B; Math 190, 191, 220, 270; Physics 3A and 3B or Physics 1A, 1B and 1C

*IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences. Courses taken for IGETC will be applied to the College's breadth pattern as appropriate.

NOTE: Major specific admissions requirements, please visit: <https://admissions.ucr.edu/transfer/majors-preparation-guide>

UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) (2022-2023)

BS Biology: Biology 110, 120; Math 190, 191, 150; Chemistry 1A, 1B, 7A, 7B; Physics 3A and 3B or 1A, 1B and 1C

Options: **BS Human Biology; BS Ecology, Behavior and Evolution; BS Microbiology; BS Molecular and Cell Biology; BS Neurobiology:** no additional courses

BS Marine Biology: Biology 110, 120; Chemistry 1A, 1B; Math 190, 191; 220 Physics 3A and 3B or Physics 1A, 1B and 1C

BS Biology with a Specializations in Bioinformatics: Biology 110, 120; Math 190, 191, 220, 270; Chemistry 1A, 1B, 7A, 7B; Computer Science 2, 3; Physics 1A, 1B and 1C

NOTE: Major specific admissions requirements, please visit: <https://admissions.ucsd.edu/transfer/transfer-major-preparation.html>

LOYOLA MARYMOUNT UNIVERSITY (LMU) (2022-2023)

BA/BS: Biology 110, 120, 130; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 3A, 3B

Note: LMU Recommended Courses by Major:

<https://transfer.lmu.edu/howtotransfer/prepare/recommendedcoursesbymajor/>

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) (2022-2023)

BA Human Biology: Biology 110, 120; Math 190; Chemistry 1A, 7A, 7B; Physics 1A, 1B and 1C or Physics 3A and 3B or Physics 2A and 2B

BA Neuroscience: Biology 110, 120; Chemistry 1A; Math 190; Psychology 101

BS Human Biology: Biology 110, 120; Chemistry 1A; Physics 2A; Math 180 or 190 or 191; select 16 units from: Chemistry 7A, 7B; Math 150 or Psychology 109A or Sociology 109; Physics 2B or 3B

BA and BS Biological Sciences: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190; Physics 1A, 1B and 1C or Physics 3A and 3B or Physics 2A and 2B

BS Neuroscience: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 190; Physics 1A, 1B and 1C or Physics 3A and 3B or Physics 2A and 2B

NOTE: USC Transfer Planning Guide: <https://atweb.usc.edu/TPG/>