



# MICROBIOLOGY 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 an academic counselor, or review articulation agreements via the Internet at [WWW.ASSIST.ORG](http://WWW.ASSIST.ORG). You may also consult the Articulation Officer for specific articulation agreements.

Microbiologists investigate the growth and characteristics of microscopic organisms such as bacteria, yeasts, other fungi, algae, protozoa, viruses, and genetic engineering and research. Some are concerned with the identification and control of communicable diseases, environmental pollutants, and health hazards within the community. They analyze water supplies, food products, and clinical specimens. A bachelor's degree in microbiology is excellent preparation for a career in biotechnology, pharmacology, agriculture and the food industry. It also provides a strong background for students wishing to continue on to professional studies in medicine and other health sciences.

Some work in the veterinary field and others develop, test, and monitor products and processes used in agriculture, industry, sanitation, food, wine and other beverage processing, and drug manufacturing. Some specialize in specific kinds of microorganisms or areas of work.

**Specialties:** Bacteriologists (Bacteriology Research Scientists), Biochemists (Biological Research Scientists, Cell Biologists (Cell Biology Research Scientists), Genetic Engineers (Geneticists, Genetics Research Scientists), Immunologists (Immunology Research Scientists), Mycologists (Mycology Research Scientists), Parasitologists (Parasitology Research Scientists), virologists (Virology Research Scientists).

### UNIVERSITY OF CALIFORNIA, DAVIS (2021-2022)

**BS Molecular & Medical Microbiology:** Biology 101, 102 or Biology 101H, 102H; Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 2A, 2B or 3A, 3B

**NOTE:** Selective major requirements, please visit:

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

### UNIVERSITY OF CALIFORNIA, IRVINE (2021-2022)

Transfer students interested in this major should apply as biological science majors. Transfer students are advised to complete as many lower-division articulated biology and degree requirements as possible prior to transfer. For information contact the School of Biological Sciences at (949) 824-5318, [www.bio.uci.edu](http://www.bio.uci.edu).

**BS Microbiology and Immunology:** Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; (Math Requirement): Math 190 and 150 OR Math 190 and 191 OR Math 190 and 220 or Math 190 and Sociology 109A; (Additional approved courses for the major) Chemistry 21B; Biology 103; Physics 3A, 3B or Physics 1A, 1C

**NOTE:** Major specific admissions requirements, please visit:

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

### UNIVERSITY OF CALIFORNIA, LOS ANGELES (2021-2022)

**BS Microbiology, Immunology, and Molecular Genetics:**

Biology 101,102; Chemistry 1A, 1B, 7A, 7B; Math 150, 190,191; Physics 3A and 3B or Physics 1A, 1C, 1D

\*Note: This major is highly selective. Students should complete at a minimum: one year of biology with laboratory, one year of general chemistry with laboratory, one year of calculus and one semester

of organic chemistry with laboratory. Completion of a second semester of organic chemistry or one year of calculus-based physics is strongly recommended.

**NOTE:** UCLA Transfer Admission Guide:

[http://www.admission.ucla.edu/Prospect/Adm\\_tr/tradms.htm](http://www.admission.ucla.edu/Prospect/Adm_tr/tradms.htm)

**UNIVERSITY OF CALIFORNIA, SAN DIEGO** (2021-2022)

**BS Microbiology:** Biology 101, 102; Chemistry 1A and 1B; Math 190 and Math 191; Highly Advised (will be accepted if taken at a community college, students must meet upper division graduation requirements at UCSD): Chemistry 7A and 7B; Math 150; Physics 3A and 3B or Physics 1A, 1B, 1C, 1D

**NOTE:** Major specific admissions requirements, please visit:

<https://admissions.ucsd.edu/transfer/transfer-major-preparation.html>

**CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS** (2021-2022)

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

**CALIFORNIA STATE UNIVERSITY, LONG BEACH** (2021-2022)

**BS Microbiology:** Chemistry 1A, 1B; Math 190 or Math 165; Biology 101 or 8 and 11, Biology 102; Chemistry 7A, 7B; Physics 2A, 2B or 3A, 3B or 1A, 1B, 1C

**NOTE:** Major specific admissions requirements, please visit:

<https://www.csulb.edu/admissions/transfer-admission-eligibility>

**CALIFORNIA STATE UNIVERSITY, LOS ANGELES** (2021-2022)

**BS Biology, Microbiology Option:** Biology 101,102; Chemistry 1A, 1B; Math 180; Physics 2A, 2B or 3A

**NOTE:** Major specific admissions requirements, please visit:

<https://www.calstatela.edu/admissions/major-specific-criteria>

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE** (2021-2022)

**BS Biology, Microbiology Option**

Biology 101,102; Chemistry 1A, 1B; Physics 2A, 2B or 3A, 3B; Math 190; (Recommended) Math 150 and Math 191

**SAN DIEGO STATE UNIVERSITY** (2021-2022)

**BS and BA Microbiology and BS Microbiology-Clinical Laboratory Sciences:** Biology 101, 102; Chemistry 1A, 1B, 7A; Math 190; Physics 2A and 2B or 3A and 3B or 1A and 1C

**Recommended Website:** [www.asm.org](http://www.asm.org) — American Society for Microbiology