

The following requirements for the major are subject to change without notice. To assure that this information is current, you should consult with a counselor, or review articulation agreements via the Internet at WWW.ASSIST.ORG.

CAREER OPPORTUNITIES:

The Bachelor of Science in Biotechnology provides students with strong core science concepts and an application-oriented education. Many students are attracted to the practical aspect of the science curricula that includes research, field experiences, internships, and enhanced lab work. Programs might be in departments such as Agriculture, Biological Sciences, Chemistry, Computer Science, and Engineering. Biotechnology includes four major industrial areas, including health care (medical), crop production and agriculture, non-food (industrial) uses of crops and other products (e.g. biodegradable plastics, vegetable oil, biofuels), and environmental uses. Some employers of Biotechnology majors include:

- Pharmaceutical companies
- National Science Foundation
- Independent research foundations
- National Institutes of Health
- Food and Drug Administration
- Environmental Protection Agency
- Department of Agriculture

- Hospital and commercial medical laboratories
- Private testing laboratories including forensics
- Public Health departments
- Food processors
- Chemical and petroleum industries
- University laboratories
- Cosmetic industry

Education and training requirements vary greatly, from the technical level to the doctoral-level, depending on the type of position. The industry has grown rapidly, and job growth is expected to increase both nationally and internationally. Graduates of BS degree programs apply successfully to graduate and professional schools in molecular biology, genetics, biochemistry, medicine and plant and animal sciences.

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (2023-2024)

http://catalog.csun.edu/academics/biol/programs/bs-biology-iv/biotechnologymedical-technology/ BS Biology-Biotechnology/Medical Technology:

Biology 110, 120; Chemistry 1A, 1B; Math 165 or 190; Physics 2A& 2B or 3A&3B

CALIFORNIA POLYTECHNIC UNIVERSITY, POMONA (2023-2024)

https://catalog.cpp.edu/preview program.php?catoid=65&poid=17130&returnto=5519

BS Biotechnology: Biology 110, 120; Chemistry 1A, 1B; Microbiology 33; Physics 2A & 2B or 3A & 3B or 1A& 1C; English 1A, English 1C or Phil 105 or 106; Math 165 or 190, Math 150

CALIFORNIA STATE UNIVERSITY, SAN MARCOS (2021-2022)

https://www.csusm.edu/biotechnology/

BS Biotechnology: Chemistry 1A, 1B, 7A, 7B; Math 165; Psychology 101 or Sociology 101; Business 150, 151

UNIVERSITY OF CALIFORNIA, DAVIS (2022-2023)

http://www.biotech.ucdavis.edu/

BS Biotechnology: Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Math 165 or 190 & 191; Physics 2A& 2B or 3A&3B

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UNIVERSITY OF CALIFORNIA SAN DIEGO (2022-2023)

http://be.ucsd.edu/biotechnology

BS Bioengineering: Biotechnology:

Math 190, 191, 220, 270, Physics 1A, 1B, 1C; Biology 110, 120; Chemistry 1A, 1B, 7A, 7B; Computer Science 17

A 3.4 GPA in all sciences and a 3.2 overall GPA is likely needed for admission.

Helpful web sites:

http://en.wikipedia.org/wiki/Biotechnology - Biotechnology from Wikipedia

http://www.worldwidelearn.com/online-education-guide/science/biotechnology-major.htm - Guide to College Majors in Biotechnology

www.bio-link.org - Bio-Link, a National Science Foundation Advanced Technology Education Center www.biotechinstitute.org - Biotechnology Institute

www.bio.org - Biotechnology Industrial Organization

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