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**
Biology BS Biotechnology/Medical Technology:
Biology 101, 102, Chemistry 1A, 1B, Math 165 or 190, Physics 2A, 2B or 3A, 3B

**CALIFORNIA POLYTECHNIC UNIVERSITY, POMONA**
https://catalog.cpp.edu/preview_program.php?catoid=36&poid=9559&returnto=2898#MajorRequiredCor e77Units
Biotechnology: Biology 101, 102, Chemistry 1A, 1B, 7A, 7B; Microbiology 33, Psychology 5, Physics 2A, 2B or 3A, 3B or 1A, 1B, 1C; English 1A, 1C

**CALIFORNIA STATE UNIVERSITY, SAN MARCOS**
https://www.csusm.edu/biotechnology/
Biotechnology: Chemistry 1A, 1B, 7A, 7B, Math 190, Psychology 5 or Sociology 101, Business 1A, 1B

**UNIVERSITY OF CALIFORNIA, DAVIS**
http://www.biotech.ucdavis.edu/
Biotechnology: Biology 101, 102, Chemistry 1A, 1B, 7A, 7B, Math 190, 191, Physics 2A, 2B or 3A, 3B
UNIVERSITY OF CALIFORNIA SAN DIEGO
http://be.ucsd.edu/biotechnology
Bioengineering: Biotechnology BS:
Math 190, 191, 220, 270, Physics 1A, 1B, 1C, Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B;
Computer Science 1 or 30
*3.4 GPA all sciences and a 3.2 overall GPA is likely needed for admission

Helpful web sites:
college majors in biotechnology
www.ccc.cwd.net - California Community Colleges Economic and Workforce Development Program
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
www.assist.org - for career information and biotechnology career information