2023-2024 Biotechnology B.A.

Lower Division Courses

All of the following lower division courses are required for the major

Chemistry

•MATH 3 or math placement of 300 or higher
CHEM 1A
General Chemistry
[F]

OR

•Previous or concurrent enrollment in MATH 2 or math placement of 200 or higher
CHEM 3A
(recommended)
General Chemistry
[F/W]

Introductory

BME 5
Introduction to Biotechnology
[F/W]

CSE 20Ω
Beginning Programming in Python
[F/W/Sp]

•CHEM 1A
BIOL 20A
Cell and Molecular Biology
[F/W/Sp/Su]

Statistics

•Math placement score of 300 or higher or Math 3 or AM 3
STAT 7/L
(Strongly Preferred)
Statistical Methods for Biological Sciences
[F/W/Sp]

OR

STAT 5
Statistics
[F/W/Sp]

Biotechnology and Society

BME 80H
The Human Genome
[F]

OR

ECE 80B
Engineering Innovations for Medicine and Natural Sciences
[Sp]

BME 80G
Bioethics in the 21st Century: Science, Business, and Society
[Sp]

OR

BME 18
Scientific Principles of Life
[F]

Upper Division Courses

Complete all of the following courses.

•BIOL 20A
BME 105
Genetics in the Genomics Era
[Sp]

•BME 105
BME 110
Computational Biology Tools
[F/W/Sp]

•BIOL 20A
BME 160 (6 units)Ω
Research Programming in the Life Sciences
[W/Sp]

Ω *CSE 20 is waived for students who have already passed BME 160.*

Electives

Complete three of the following; ***at least two must be BME courses****:*

BME 122H, BME 128*, BME 130, BME 132, BME 140, BME 177, BME 178*, ECE 104, FMST 124, FMST 133*, METX 100, SOCY 121, SOCY 123, SOCY 127P*

*Classes have additional prerequisites not covered by the major requirements

♦Students may petition to have one upper-division biology course count as an elective, but most such courses have prerequisites that are not required for the major.

1. _____
2. _____
3. _____

Disciplinary Communication (DC) Requirement

Complete the following course.

•ELWR and BIOL 20A
BME 185
Technical Writing for Biomolecular Engineers
[F/W/Sp]

Comprehensive Requirement

Complete the following course.

BME 175
Entrepreneurship in Biotechnology
[W]

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

The Bachelor of Arts in Biotechnology is intended for students who plan to be involved in the biotechnology industry as writers, artists, ethicists, executives, sales force, regulators, lawyers, politicians, and other roles that require an understanding of the technology, but not the intensive training needed for technicians, research scientists, engineers, and bioinformaticians. This major is designed to be suitable as a double major or minor for students in the humanities or social sciences.

This major cannot be paired as a double major for programs that have a restriction against adding a double major that is Bio related or paired with a Bioinformatics minor.

Student Name:

Adviser Name/Notes: