

2022-2023 Biotechnology B.A.

Lower Division Courses

To declare the Biotechnology major, students must have completed four of the following lower-division courses. All of the following lower division courses are required for the major.

BME 5
Introduction to
Biotechnology
[F/W]

•MATH 3 or AM 3 or math
placement of 300 or higher
CHEM 1A
General Chemistry
[F/W/Sp/Su]

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

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

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

OR
BME 18
Scientific Principles of
Life
[F]

BME 80H
The Human Genome
[F/W]
OR
ECE 80B
Engineering
Innovations for
Medicine and Natural
Sciences
[Sp]

•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]

Upper Division Courses

Complete all of the following courses.

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

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

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

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

^Q CSE 20 is waived for students who have already passed BME 160.

Comprehensive Requirement

Complete the following course.

BME 175
Entrepreneurship in
Biotechnology
[W]

Elective

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. _____

Exit Requirements

Exit requirements are expected to be completed by the end of a student's final quarter

1. **Exit Portfolio:**
2. **Exit Survey**
3. **Exit Interview**

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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.

Student Name:

Adviser Name/Notes: