2021-2022 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]

- **CHEM 1A**
  General Chemistry
  [F/W/Sp/Su]

- **BIOL 20A**
  Cell and Molecular Biology
  [F/W/Sp/Su]

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

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

- **Math placement score of 300 or higher or Math 3 or AM 3**

- **CHEM 1A**
  General Chemistry
  [F/W/Sp/Su]

- **BIOL 20A**
  Cell and Molecular Biology
  [F/W/Sp/Su]

- **BME 5**
  Introduction to Biotechnology
  [F/W]

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

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

- **Math placement score of 300 or higher or Math 3 or AM 3**

Upper Division Courses
Complete all of the following courses.

- **BIOL 20A**
  Genetics in the Genomics Era
  [Sp]

- **BME 105**
  Genetics in the Genomics Era
  [Sp]

- **BME 105**
  Computational Biology Tools
  [F/W/Sp]

- **BME 160 (6 units)**
  Research Programming in the Life Sciences
  [W/Sp]

- **BME 185**
  Technical Writing for Biomolecular Engineers
  [F/Sp]

- **ELWR and BIOL 20A**
  Biological Writing
  [Sp]

- **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. ______________________

Comprehensive Requirement
Complete the following course.

- **BME 175**
  Entrepreneurship in Biotechnology
  [W]

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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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.

\(\Diamond\) CSE 20 is waived for students who have already passed BME 160.

Student Name:

Adviser Name/Notes: