Biology, Bachelor of Arts

To obtain a BA with a major in Biology, a student must fulfill university, college, and departmental requirements. Minimum hour requirements follow:

- 46 hours of University General Education courses—Most commonly, Biology majors do not complete 46 hours of coursework solely for the purpose of meeting university General Education requirements. Instead, they often do the following:
  - Test out of at least three hours of fundamental academic skills,
  - Take six hours of coursework that meets both the six hours of diversity requirements and six hours of distribution requirements,
  - Apply up to five hours of foreign language coursework toward meeting the nine-hour General Education humanities requirement,
  - Meet the seven-hour University General Education natural sciences distribution requirement through completing major courses.

In such cases, the number of credit hours taken solely to meet General Education requirements is reduced to 25 or fewer.

- 16 hours foreign language requirement (Four years of a single language in high school or four college semesters will satisfy this requirement.)
- 12 hours college breadth requirement
- 51 hours of major courses
- Elective hours as required to reach a total of 120 hours

Total Hours: 120

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 1450</td>
<td>BIOLOGY I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 1750</td>
<td>BIOLOGY II</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 2140</td>
<td>GENETICS</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3340</td>
<td>ECOLOGY</td>
<td>4</td>
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</tbody>
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The remaining 18 elective credits in biology should be chosen in consultation with a Biology advisor and must include at least 14 credits from BIOL 3000-4000 level courses, including at least one lab course (in addition to BIOL 3340). Up to three credits of BIOL 4030, up to three credits of either BIOL 4050 or BIOL 4800 and one credit of BIOL 4040 can be included. BIOL 3150 may not be used to satisfy the requirement for 3000-4000 level biology credits. Courses at the 1000-2000 level are restricted to:

- BIOL 2440: THE BIOLOGY OF MICROORGANISMS
- BIOL 2740: HUMAN PHYSIOLOGY AND ANATOMY I
- BIOL 2840: HUMAN PHYSIOLOGY AND ANATOMY II

Chemistry Requirements

Select one of the following required chemistry sequences: 14-16

- Sequence 1:
  - CHEM 1140 & CHEM 1144: FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY
  - CHEM 2210 & CHEM 2214: FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY

- Sequence 2:
  - CHEM 1180 & CHEM 1184: GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY
  - CHEM 1190 & CHEM 1194: GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY
  - CHEM 2250 & CHEM 2254: ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY LABORATORY
  - CHEM 2260 & CHEM 2264: ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY

- Sequence 3:
  - CHEM 1180 & CHEM 1184: GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY
  - CHEM 1190 & CHEM 1194: GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY
  - CHEM 2210 & CHEM 2214: FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY
  - CHEM 3560 & CHEM 3564: FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY

Required Lecture and Lab Coursework in Physics

Select one of the following pairings or groupings: 5-10

Option 1:
- PHYS 1050 & PHYS 1054: INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY

Option 2:
- PHYS 1110 & PHYS 1154: GENERAL PHYSICS I WITH ALGEBRA and GENERAL PHYSICS LABORATORY I
- PHYS 1120 & PHYS 1164: GENERAL PHYSICS and GENERAL PHYSICS LABORATORY II

Option 3:
- PHYS 2110 & PHYS 1154: GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I
- PHYS 2120 & PHYS 1164: GENERAL PHYSICS-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II

Additional Requirements

One approved course in statistics from the following options: 3-4
- BIOL 4110, STAT 3000, PSYC 3130, SOC 2130

One approved math or computer science course from the following options: MATH 1220, 1320, 1330, 1340, 1930, 1940, 1950; CSCI 1200 or above

Total Credits: 61-71

For a B.A., the college requires completion of a foreign language through the intermediate level.