### Bachelor of Arts in Biology
2021-2022 Catalog

**Overall Requirements to Graduate**
- 120+ semester hours
- Completion of core curriculum
- Completion of a major
- 36 upper division credit hours
- GPA above 2.0
- Major GPA above 2.0
- Minor/Program complete (optional)

### Core Curriculum (46 hours)

#### Theology (9 credit hours) Must take in order. (Pre-req: Phil 1311 or 1315/3315)
- THEO 1301/3301 Intro to Sacred Scriptures
- THEO 2301/3311 Teachings of the Catholic Church
- THEO 3349 Christ and the Moral Life (Phil 2314 or 2316/3316)

#### Philosophy (9 credit hours) Choose one sequence:
- Systematic Sequence (must take in order)
  - PHIL 1311 Philosophy of the Human Person
  - PHIL 2314 Ethics
  - PHIL 3313 Metaphysics
- Historical Sequence (must take in order)
  - PHIL 1315/3315 Ancient Philosophy
  - PHIL 2316/3316 Medieval Philosophy
  - PHIL 3317 – Modern Philosophy

#### Synthesis Course (3 credit hours)
Choose one synthesis course from the Synthesis Course List.

#### English (9 credit hours)* Must take in order.
- ENGL 1341 The Classical Tradition: Literature & Composition I
- ENGL 1342 The Middle Ages: Literature & Composition II
- ENGL 2312 The Modern World: Literature & Composition III

*Students with transfer credit:
3 transfer credits: Take 1341/1342 (left)
6 transfer credits: Take ENGL 3312 (below)

#### History (6 credit hours) Choose one pair of courses:
- World History
  - HIST 1335 World Community I
  - HIST 1336 World Community II
- U.S. History
  - HIST 2333 U.S. History to 1877
  - HIST 2334 U.S. History since 1877

#### Social and Behavioral Sciences (6 credit hours) Choose one option:
- Social and Behavioral Sciences Option
  - Choose two courses from the Social and Behavioral Sciences Core course list.
- Social and Behavioral Sciences + Oral Communication Option
  - Choose one course from the Social & Behavioral Sciences Core course list.
  - Choose one course from the Communication Core Course list.

#### Natural Sciences (8-10 credit hours) Choose one option:
- Natural Sciences Option (8 credit hours)
  - Choose two lecture/laboratory courses from the Natural Sciences Core course list.
- Natural Sciences + Modern and Classical Language Option (10 credit hours)
  - Choose one lecture/laboratory course from the Natural Sciences Core course list.
  - Choose two sequential courses in a language. Courses must be completed in order

#### Mathematics (3 credit hours)
- Choose one course from the Mathematics Core Course list.

#### Fine Arts (3 credit hours)
- Choose one course from the Fine Arts Core Course list.

#### Freshman Symposium (1 credit hour) Required for all incoming freshmen.
- UNIV 1111 Freshman Symposium

### Credit Hour Breakdown

<table>
<thead>
<tr>
<th>Hours completed</th>
<th>Hours in progress</th>
<th>Core hours needed</th>
<th>Major hours needed</th>
<th>(Minor hours needed)</th>
<th>(Other hours needed)</th>
<th>Elective hours needed</th>
<th>TOTAL HOURS (120+)</th>
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**Last updated on March 26, 2021**
## Bachelor of Arts in Biology
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### Major Requirements (55 credit hours)

<table>
<thead>
<tr>
<th>Biology (20 credit hours)</th>
<th>Complete</th>
<th>Needed</th>
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<tbody>
<tr>
<td>□ BIOL 1351/1151 – Introduction to Population Biology and Evolution w/ lab</td>
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<tr>
<td>□ BIOL 1352/1152 – Introduction to Cell and Molecular Biology w/ lab</td>
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<td>□ BIOL 321 – Genetics (BIOL 1351/1151/1352/1152, CHEM 1341/1141/1342/1142)</td>
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<tr>
<td>□ BIOL 331 – Ecology (BIOL 3321)</td>
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<tr>
<td>□ BIOL/CHEM 3334 – Biochemistry (CHEM 2343/2143)</td>
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<td>□ BIOL 4332 – Evolution (Capstone) (BIOL 3221, senior standing)</td>
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</table>

### Additional Upper Division Biology Courses (15 credit hours)

Choose four lecture courses and 3 lab courses. For 3 HR courses with 1 HR lab it is recommended to take them together. 4 HR courses include the lecture and the lab. *Courses marked with an asterisk require completion of BIOL 321 Genetics

<table>
<thead>
<tr>
<th>3 HR Lecture Courses:</th>
<th>1 HR Lab Courses:</th>
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<tbody>
<tr>
<td>□ BIOL 3345 Physiology (BIOL 1352/1152, CHEM 1342/1142)</td>
<td>□ BIOL 3121 Genetics &amp; Molecular Lab (BIOL 3321)</td>
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<tr>
<td>□ BIOL 3333 Microbiology*</td>
<td>□ BIOL 3133 Microbiology Lab*</td>
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<tr>
<td>□ BIOL 3339 Neuroscience*</td>
<td>□ BIOL/CHEM 3314 Biochemistry Lab (CHEM 2343/2143)</td>
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<tr>
<td>□ BIOL 3331 Ecology*</td>
<td>□ BIOL 3151 Advanced Molecular Biology Lab*(BIOL 3334)</td>
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<tr>
<td>□ BIOL 3341 Marine Biology*</td>
<td>□ BIOL 4154 Pathogenic Microbiology Lab*</td>
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<tr>
<td>□ BIOL 3351 Molecular Biology*</td>
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<tr>
<td>□ BIOL 3362 Cancer Biology*</td>
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<tr>
<td>□ BIOL 4321 Nucleic Acids*</td>
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<tr>
<td>□ BIOL 4336 Cells, Genes &amp; Molecules (BIOL 3334, 3351)</td>
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<tr>
<td>□ BIOL 4354 Pathogenic Microbiology*</td>
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<table>
<thead>
<tr>
<th>4 HR Lecture Courses:</th>
<th>1 HR Lab Courses:</th>
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<tbody>
<tr>
<td>□ BIOL 3448 Comparative Anatomy &amp; Lab*</td>
<td>□ BIOL 3121 Genetics &amp; Molecular Lab (BIOL 3321)</td>
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<tr>
<td>□ BIOL 3461/3061 Cell Biology &amp; Lab*</td>
<td>□ BIOL 3133 Microbiology Lab*</td>
</tr>
<tr>
<td>□ BIOL 4449 Immunology &amp; Lab*</td>
<td>□ BIOL/CHEM 3314 Biochemistry Lab (CHEM 2343/2143)</td>
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### Chemistry (12 credit hours)

Must take in order:

- □ CHEM 1341/1141 General Chemistry I and laboratory
- □ CHEM 1342/1142 General Chemistry II and laboratory
- □ CHEM 2343/2143 Organic Chemistry I and laboratory (CHEM 1342/1142)

### Physics (4 credit hours)

Choose one of the following.

- □ PHYS 1331/1111 General Physics I w/ lab
- □ PHYS 2333/2111 University Physics I w/ lab (MATH 1431)

### Mathematics (4 credit hours)

Choose one from the following.

- □ MATH 1431 Calculus I (MATH 1331 with a C or better)
- □ MATH 3450/1050 Biostatistics I (6 credit hours math or science)

### Electives

Electives to reach the 120 hour minimum to graduate (19 hours)

This major contains 17-29 upper-division (3000 or 4000 level) credit hours. 36 upper-division credit hours are required for graduation. Consider additional upper-division options in the core or electives.

### Totals

Total undergraduate hours (120 minimum):

**MINIMUM TOTAL: 120+

**Note:** All biology students must complete a Major Field Test prior to graduation**

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