

Biology—Organismal & Field

Bachelor of Science

Semester 1

| Course | Credits | Grade | | ✓ |
|--|---------|-------|--|--------------------------|
| ENGL 101: Composition & Rhetoric I | 3 | C* | | <input type="checkbox"/> |
| BIOL 121/L: Foundations of Biology I with Lab | 4 | C | | <input type="checkbox"/> |
| BIOL 130: Freshmen Biology Seminar | 1 | C | | <input type="checkbox"/> |
| CHEM 101/111: Principles of Chemistry I with Lab | 4 | C | | <input type="checkbox"/> |
| MATH 103: College Algebra or MATH 107: Precalculus | 3-4 | C | | <input type="checkbox"/> |
| UNIV 100: CU Foundations | 1 | | | <input type="checkbox"/> |

16-17

Semester 2

| Course | Credits | Grade | | ✓ |
|---|---------|-------|--|--------------------------|
| ENGL 102: Composition & Rhetoric II | 3 | C* | | <input type="checkbox"/> |
| BIOL 122/L: Foundations of Biology II with Lab | 4 | C | | <input type="checkbox"/> |
| CHEM 102/112: Principles of Chemistry II with Lab | 4 | C | | <input type="checkbox"/> |
| MATH 104: College Trigonometry (If took MATH 107, take an Elective/Minor) | 3 | | | <input type="checkbox"/> |

14

Semester 3

| Course | Credits | Grade | | ✓ |
|---|---------|-------|--|--------------------------|
| *BIOL 201: Ecology & Field Methods | 4 | | | <input type="checkbox"/> |
| MATH 105: Elementary Statistics | 3 | | | <input type="checkbox"/> |
| Organismal Elective | 4 | | | <input type="checkbox"/> |
| General Education Course | 3 | | | <input type="checkbox"/> |
| General Education Course | 2-3 | | | <input type="checkbox"/> |

16-17

Semester 4

| Course | Credits | Grade | | ✓ |
|--|---------|-------|--|--------------------------|
| BIOL 230: Sophomore Biology Seminar | 1 | | | <input type="checkbox"/> |
| Organismal Elective | 4 | | | <input type="checkbox"/> |
| Directed Elective | 4 | | | <input type="checkbox"/> |
| General Education Course | 3 | | | <input type="checkbox"/> |
| General Education Course | 3 | | | <input type="checkbox"/> |

15



The Bachelor of Science in Biology degree with

Organismal & Field Biology emphasis is designed for

students who are interested in field-oriented biology, such as environmental science (natural history, fish and game, national and state parks and refuges, etc.), in other areas with more emphasis on organismal biology, or science education.



MILESTONE COURSES

Courses marked as Milestone Courses are crucial for staying on track to complete your degree

in four years. Take them in the recommended semester to stay on track! If you see a recommended minimum grade, this is the grade you need to earn to have the best chance for success in this degree! Grades marked with an asterisk are required to pass.



LANDMARKS

Points where you see a landmark icon on the four-year plan indicate you have reached a

point of action outside regular coursework! See the Helpful Hints for information on each landmark.

Helpful Hints

- Use this plan in consultation with your Academic Advisor.
- This four-year plan assumes you begin your degree in the Fall semester. Courses in **bold** are only offered during the semester shown.
- Semesters 1 & 2: MATH 103 and MATH 104 are *not* required for this degree, but are recommended. Also, MATH 103 & 104 or equivalent proficiency is required for PHYS 101.
- See the [Academic Catalog](#) and discuss with your advisor about courses that fulfill the Directed Elective requirements and align with your career goals.

Semester 5

| Course | Credits | Grade | ✓ |
|--------------------------------|---------|-------|--------------------------|
| *BIOL 301: Plants as Organisms | 4 | | <input type="checkbox"/> |
| PHYS 101: Introductory Physics | 4 | | <input type="checkbox"/> |
| Directed Elective | 4 | | <input type="checkbox"/> |
| General Education Course | 3 | | <input type="checkbox"/> |
| | 15 | | |

Semester 6

| Course | Credits | Grade | ✓ |
|---------------------------------|---------|-------|--------------------------|
| *BIOL 202: Animals as Organisms | 4 | | <input type="checkbox"/> |
| PHYS 102: Intermediate Physics | 4 | | <input type="checkbox"/> |
| Directed Elective | 4 | | <input type="checkbox"/> |
| General Education Course | 3 | | <input type="checkbox"/> |
| | 15 | | |

Semester 7

| Course | Credits | Grade | ✓ |
|--------------------------|---------|-------|--------------------------|
| BIOL 401: Genetics | 4 | | <input type="checkbox"/> |
| Directed Elective | 4 | | <input type="checkbox"/> |
| General Education Course | 3 | | <input type="checkbox"/> |
| Elective/Minor | 3 | | <input type="checkbox"/> |
| | 14 | | |

Semester 8

| Course | Credits | Grade | ✓ |
|----------------------------|---------|-------|--------------------------|
| BIOL 455: Biology Capstone | 2 | | <input type="checkbox"/> |
| Directed Elective | 4 | | <input type="checkbox"/> |
| General Education Course | 3 | | <input type="checkbox"/> |
| Elective/Minor | 3 | | <input type="checkbox"/> |
| Elective/Minor | 3 | | <input type="checkbox"/> |
| | 15 | | |



ADVISING

When you choose to pursue this degree, you will be assigned an advisor who is an expert in the field of Biology. This advisor can help you with course selection, career planning, resume building, and help you with tracking your path to degree completion.

CAREERS

Environmental Consultant
 Research Technician
 Science Educator

Also preparatory for graduate and health professional schools.

STUDENT ORGANIZATIONS

PATCH
 CU ACS
 Sigma Zeta (honor society)

COMPLEMENTARY MINORS

Appalachian Studies
 Chemistry
 Computer Science
 Environmental Geosciences
 Geospatial Information Sciences
 Geology
 Mathematics
 Physics
 Psychology

Helpful Hints

- Students must take either BIOL 302 **or** BIOL 401.
- Students must take three (3) courses from: BIOL 201, 202, 301, & 369.
- There are several options when choosing which courses to take. Discuss with your advisor which courses align with your career goals.
- Semester 8 Landmark—Students completing the biology capstone will analyze a current issue in biology, write a critical review, and give an oral presentation which is open to the public. **At the end of the course, comprehensive program assessments are administered; a passing grade must be obtained.** Students have the option to take BIOL 470: Senior Independent Research I (3) and BIOL 471: Senior Independent Research II (3) instead of BIOL 455.