

# BIOLOGY (FISHERIES)

## Bachelor of Science (BS)

This degree map is based on the 2023-24 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester. We recommend taking a minimum of 15 credits each fall and spring semester.

### Sample 4-Year Plan

<b>First Year</b>			
<b>Fall Courses</b>	<b>Credits</b>	<b>Spring Courses</b>	<b>Credits</b>
BIOL 110 Principles of Biology 1	4	BIOL 111 Principles of Biology 2	4
General Education	3	MATH 150 Essentials of Calculus	3
Freshman Seminar	3	BIOL 112 Aquaculture	3
STAT 141 Intro to Statistics	3	General Education	3
BIOL 252 Watershed Ecology Techniques	3		
Semester Total	16	Semester Total	13
<b>Second Year</b>			
<b>Fall Courses</b>	<b>Credits</b>	<b>Spring Courses</b>	<b>Credits</b>
BIOL 301 Ecology	4	BIOL 453 Freshwater Entomology	3
BIOL 113 Applied Aquaculture	3	CHEM 122 General Chemistry 2	4
BIOL 201 Introduction to Biological Research Methods	3	BIOL 211 Cell Biology	4
CHEM 121 General Chemistry 1	4	General Education	3
Semester Total	14	Semester Total	14
		<b>Summer Course: BIOL 498 Internship in Biology</b>	1
<b>Third Year</b>			
<b>Fall Courses</b>	<b>Credits</b>	<b>Spring Courses</b>	<b>Credits</b>
BIOL 209 Genetics	3	BIOL 439 Hum Dim Fish Mngt	3
BIOL 433 Ichthyology	3	Free Electives	3
General Education	3	General Education	3
General Education	3	General Education	3
PHYS 208 Intro to Physics 1 or PHYS 211 General Physics 1	4	Free Electives	3
Semester Total	16	Semester Total	15
		<b>Summer Course: BIOL 440 Mngt Sm Impound</b>	3
		<b>Summer Course: BIOL 441 Mngt Lg Impound &amp; Strm</b>	3
<b>Fourth Year</b>			
<b>Fall Courses</b>	<b>Credits</b>	<b>Spring Courses</b>	<b>Credits</b>
BIOL 452 Freshwater Ecology	3	Physical Sciences course0000	3
BIOL 435 Conservation Genetics	3	BIOL 438 Environmental Policy and Regulation	3
Free Electives	1	General Education	3
General Education	3	General Education	3
General Education	3		
Semester Total	13	Semester Total	12

### Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

# BIOLOGY BS FISHEREIES

## Curriculum Checklist

### Biology Core Requirements (56 credits)

- \_\_\_ BIOL 110 Principles of Biology 1 (4)
- \_\_\_ BIOL 111 Principles of Biology 2 (4)
- \_\_\_ BIOL 112 Aquaculture (3)
- \_\_\_ BIOL 113 Applied Aquaculture (3)
- \_\_\_ BIOL 201 Intro to Bio Research (3)
- \_\_\_ BIOL 209 Genetics (3)
- \_\_\_ BIOL 211 Cell Biology (4)
- \_\_\_ BIOL 252 Watershed Ecology Tech (3)
- \_\_\_ BIOL 301 Ecology (4)
- \_\_\_ BIOL 433 Ichthyology (3)
- \_\_\_ BIOL 435 Conservation Genetics (3)
- \_\_\_ BIOL 438 Enviro Policies and Regs (3)
- \_\_\_ BIOL 439 Hum Dim in Fish Mgt (3)
- \_\_\_ BIOL 440 Mgt of Sm Impoundments (3)
- \_\_\_ BIOL 441 Mgt of Lg Impoundments (3)
- \_\_\_ BIOL 452 Freshwater Ecology (3)
- \_\_\_ BIOL 453 Freshwater Entomology (3)
- \_\_\_ BIOL 498 Internship in Biology (1)

### Related Core Requirements (21 credits)

- \_\_\_ CHEM 121 General Chemistry 1 (4)
- \_\_\_ CHEM 122 General Chemistry 2 (4)
- \_\_\_ PHYS 208 Intro to Physics 1 (4)
- \_\_\_ STAT141 Intro to Statistics (3)
- \_\_\_ MATH150 Essentials of Calculus (3)
- \_\_\_ PHYS103 Physical Science (3)

## General Education Requirements

### (45 credits)

*Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below*

- Foundations (15 credits)
  - MATH 150; STAT 141 (3)
- Interconnections (9 credits)
- Citizenship & Responsibility (6 credits from at least two goals)
- Natural World & Technologies (9 credits)
  - BIOL110 Principles of Biology I (4)
  - CHEM 121 General Chemistry 1 (4)
  - PHYS208 Intro to Physics I (4)
- Creativity & Expression (6 credits)

## Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements.

*A minimum GPA of 2.0 in the major and overall are required.*

## Campus Locations

- |                   |  |
|-------------------|--|
| <b>Bloomsburg</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended            |
| <b>Lock Haven</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended            |
| <b>Mansfield</b>  | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| <b>Clearfield</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended            |