

# FISHERIES

## Bachelor of Science (BS) - Biology

This degree map is based on the current Academic Catalog and is subject to change. Please note that the degree map is designed to give you a sense of roughly how courses might be distributed over a 4-year degree. Your exact schedule will differ depending on a range of factors though we recommend taking a minimum of 15 credits each fall and spring semester. Regular consultation with your academic advisor is the best way to make sure that you are taking the courses you need in the right order to ensure efficient progress through your degree program.

### Sample 4-Year Plan

First Year			
Fall Courses	Credits	Spring Courses	Credits
BIOL 110 Principles of Biology 1	4	BIOL 111 Principles of Biology 2	4
FYS 100 First Year Seminar	3	MATH 150 Essentials of Calculus	3
STAT 141 Introduction to Statistics	3	BIOL 112 Aquaculture	3
BIOL 252 Watershed Ecology Techniques	3	WRIT 103 Foundations in Composition	3
General Education	3		
Semester Total	16	Semester Total	13
Second Year			
Fall Courses	Credits	Spring Courses	Credits
BIOL 301 Ecology (FALL ONLY)	4	BIOL 211 Cell Biology	4
BIOL 113 Applied Aquaculture	3	BIOL 453 Freshwater Entomology	3
BIOL 201 Introduction to Biological Research Methods	3	CHEM 122 General Chemistry 2	4
CHEM 121 General Chemistry 1	4	General Education	3
Semester Total	14	Semester Total	14
		Summer Course: BIOL 498 Internship in Biology	1
Third Year			
Fall Courses	Credits	Spring Courses	Credits
BIOL 209 Genetics	3	BIOL 439 Hum Dim Fish Mngt	3
BIOL 433 Ichthyology	3	General Education	3
PHYS 208 Introduction to Physics 1	4	General Education	3
General Education	3	Free Electives	3
General Education	3	Free Electives	3
Semester Total	16	Semester Total	15
		Summer Course: BIOL 440 Mngt Sm Impound	3
		Summer Course: BIOL 441 Mngt Lg Impound & Strm	3
Fourth Year			
Fall Courses	Credits	Spring Courses	Credits
BIOL 452 Freshwater Ecology	3	BIOL 438 Environmental Policy and Regulation	3
BIOL 435 Conservation Genetics	3	Physical Sciences course	3
General Education	3	General Education	3
General Education	1	General Education	3
Free electives	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.

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## 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)

^ Enrollment in course is contingent on an ALEKS math placement score >61 or successful completion of MATH118 College Algebra with a grade of C or better.

Note: Progression through the sequence of all chemistry courses requires achievement of a minimum grade of C in pre-requisite courses.

## 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 (a minimum of 42 credits must be advanced coursework), 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.*

\*Denotes advanced coursework

Students must take a minimum of 42 credits of advanced coursework. Advanced coursework can be met in major courses, minor courses, free elective courses, and general education courses. Courses that meet this requirement are designated in Banner.