



**B.S. Wildlife & Fisheries Biology &  
Management  
Aquatic Option  
2020-2021 Catalog**

**University of Wyoming  
B.S. Wildlife & Fisheries Biology &  
Management, Aquatic Option**

	cr	Min Grade	Notes
<b>USP - University Studies Program Requirements</b>			
<b>USP: First Year Seminar</b>	3	C	FYS
<b>USP: Communications I</b>	3	C	C1
<b>USP: Communications II</b> (ZOO 2450 built into major)		C	C2
<b>USP: Communications III</b> (ZOO 4100 & 4101 built into major)			C3
<b>USP: US &amp; Wyoming Constitutions</b>	3		V
<b>USP: Human Culture</b>	3		H
<b>USP: Quantitative</b> (MATH 1400 built into the major)			Q
<b>USP: Physical &amp; Natural World</b> (CHEM 1020 & 1030 built into major)			PN
<b>Credit hours subtotal:</b>			15
<b>Foundation Courses</b>			
<b>Complete both:</b> MATH 1400 College Algebra MATH 1405 Trigonometry	3 3		Q MATH 1450 (5 credits) may be substituted for MATH 1400 & MATH 1405
MATH 2200 Calculus I	4		May substitute MATH 1405 & MATH 2350
<b>Choose one:</b> LIFE 2100 Introduction to Research and Analysis STAT 2050 Fundamentals of Statistics STAT 2070 Introductory Statistics for the Social Sciences	4		
<b>Complete both:</b> CHEM 1020 General Chemistry I CHEM 1030 General Chemistry II	4 4		PN PN
<b>Physical Science, Choose one:</b> GEOL 1100 Physical Geology PHYS 1110 General Physics I SOIL 2010 Introduction to Soil Science	4		
COSC 1200 Computer Information Systems	3		(Or approved Data Science course)
LIFE 1010 General Biology	4		
LIFE 2022 Animal Biology	4		
<b>Credit hours subtotal:</b>			37
<b>Core Required Courses</b>			
LIFE 3050 Genetics	4		
LIFE 3400 General Ecology	3		
LIFE 3410 Introduction to Field Ecology	2		

ZOO 2450 Principles of Fish and Wildlife Management	4		C2
ZOO 4190 Comparative Environmental Physiology	4		
ZOO 4400 Population Ecology	3		
ZOO 4970 Internship in Wildlife Management	1		(Maximum 1)
ZOO 4101 Scientific Communication Lab	1		C3

**Credit hours subtotal:** 24

**Aquatic Option**

ZOO 4330 Ichthyology	3		
ZOO 4400 Population Ecology	3		
ZOO 4430 Limnology Laboratory	2		

**Aquatic Option Electives**

A minimum of 10 of the AQUATIC OPTION requirements listed below (ZOO 4330 and ZOO 4440 and ZOO 4430 and Restricted Electives) must be exclusive to the WFBM major.

ZOO 4330/4400/4430 plus Fifteen (15) credits of restricted electives from the courses listed below:

ZOO 3600 Principles of Animal Behavior	3		
ZOO 4235 Marine Biology	3		
ZOO 4300 Wildlife Ecology and Management	5		
ZOO 4310 Fisheries Management	3		
ZOO 4350 Ornithology	3		
ZOO 4370 Mammalogy	3		
ZOO 4380 Herpetology	3		
ZOO 4415 Behavioral Ecology	3		
ZOO 4420 Conservation Biology	3		
ZOO 4540 Invertebrate Zoology	4		
CHEM 2230 Quantitative Analysis	4		
BOT 0000:5999			Any BOT course.
REWM 0000:5999			Any REWM course.
ENR 0000:5999			Any ENR course.
SOC 3950 Environmental Sociology	3		
AGEC 3750 Natural Resource Planning and Economics	3		
LIFE 2023 Biology of Plants and Fungi	4		

**Credit hours subtotal:** 23

**Elective Courses**

Elective	15		Electives should work to fulfill upper division requirement.
A&S Core Diversity in the US	3		ASD
A&S Core Global Awareness	3		ASG

**Credit hours subtotal:** 21

**B.S. Wildlife & Fisheries Biology and Management, Aquatic Option**

**total credit total:** 120

**B.S. Wildlife & Fisheries Biology and Management (Aquatic Option) Program Notes:**

A student graduating with a degree in WFBM will have comprehensive knowledge of wildlife and fisheries biology and management, will have earned a degree that is compatible with the requirements for professional certification with the American Fisheries Society or the Wildlife Society, and will have a range of knowledge and skills that are valuable to potential employers.

- A minimum of 120 hours is required. A minimum of 42 hours must be upper division (3000 & 4000 level).
- Math, Science & CM Electives must be selected with advisor's approval from Department list. General Electives cannot meet any other requirement for the major. Electives should be selected to satisfy the 42 hour upper division requirement.

- Degree Candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all courses required for the major. • Grades of C or better are required for all prerequisite courses.
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.

### **University of Wyoming Requirements**

- Students must have a minimum cumulative GPA of 2.0 to graduate.
- Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming.
- Courses must be taken for a single letter grade unless offered only for S/U.
- University Studies Program (USP), Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

### **College of Arts and Sciences Requirements**

- Students must take two "core" courses in addition to UW's USP requirements: Diversity in the United States (ASD) and Global Awareness (ASG).
- No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation.
- At least 30 hours in the major subject must be completed with a grade of C or better (individual majors may require more).

The University of Wyoming Office of the Registrar provides final approval of degree completion requirements prior to the awarding of any degree.