"W" Number:_____
Student Name:_____
Advisor Name:_____

Catalog: 2021-2022 University of Wyoming Catalog
Program: Wildlife and Fisheries Biology and Management, B.S.

Wildlife and Fisheries Biology and Management, B.S.

Wildlife and Fisheries Biology and Management is a professional degree designed to prepare students for state, federal, and other positions in resource management and conservation biology. The degree provides students with knowledge of the natural world, understanding of processes governing dynamics of wildlife and fish populations, as well as an appreciation of human-mediated effects on wildlife and fish populations. A student graduating with this degree will be familiar with the theory of resource management as well as with methods used to determine population status, habitat quality, and conservation. In Wyoming the abundance of wild animals and pristine habitats provide a unique natural laboratory for studying the responses of wildlife and fish populations to changing climates and habitats.

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.

Foundation Courses

(MATH 1450 may substitute for MATH 1400 and MATH 1405)

Course Name	Credits:	Term Taken	Grade	Gen Ed
MATH1400 - College Algebra	Credits: 3			
MATH1405 - Trigonometry	Credits: 3			
MATH2200 - Calculus I (may substitute MATH 2350)	Credits: 4			
STAT2050 - Fundamentals of Statistics	Credits: 4			
OR				
STAT2070 - Introductory Statistics for the Social Sciences	Credits: 4			
OR				
LIFE2100 - Intro Research and Analysis	Credits: 4			
CHEM1020 - General Chemistry I	Credits: 4			
CHEM1030 - General Chemistry II	Credits: 4			
GEOL1100 - Physical Geology	Credits: 4			
OR				
PHYS1110 - General Physics I	Credits: 4			
OR				
SOIL2010 - Introduction to Soil Science	Credits: 4			
LIFE1010 - General Biology	Credits: 4			
LIFE2022 - Animal Biology	Credits: 4			

Data Science course

Choose ONE course from the following:

Course Name	Credits:	Term Taken	Grade	Gen Ed
COSC1010 - Introduction to Computer Science I	Credits: 4			
COSC1015 - Introduction to Programming for Data Science	Credits: 3			
COSC1100 - Computer Science Principles and Practice	Credits: 3			
COSC1200 - Computer Information Systems	Credits: 3			
GIST1200 - Geospatial Foundations	Credits: 3			
GIST2140 - Survey of Remote Sensing Applications	Credits: 3			
GIST2190 - Intro to Programming	Credits: 3			
GIST2200 - Spatial Data Visualization	Credits: 3			
GIST2310 - Intro to Geographic Information Systems	Credits: 4			
GIST3140 - Introduction to Remote Sensing	Credits: 3			
GIST4211 - Advanced Remote Sensing	Credits: 3			

Core Required Courses

Course Name	Credits:	Term Taken	Grade	Gen Ed

LIFE3050 - Genetics	Credits: 4			
LIFE3400 - General Ecology	Credits: 3			
LIFE3410 - Introduction to Field Ecology	Credits: 2			
ZOO2450 - Fish and Wildlife Management in the Anthropocene	Credits: 4			
ZOO4190 - Comparative Environmental Physiology	Credits: 4			
ZOO4400 - Population Ecology	Credits: 3			
ZOO4970 - Internship in Wildlife Management	Credits: 1			
ZOO4100 - Scientific Communication (or approved USP C3 substitute) **AND**	Credits: 2			
ZOO4101 - Scientific Communication Lab (or approved USP C3 substitute)	Credits: 1			

Options

Complete Terrestrial OR Aquatic Option

Aquatic Option

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.

Course Name	Credits:	Term Taken	Grade	Gen Ed
REQUIRED COURSES				
ZOO4330 - Ichthyology	Credits: 3			
ZOO4440 - Limnology	Credits: 3			
ZOO4430 - Limnology Laboratory	Credits: 2			
Restricted Electives				
15 Credits of Electives from the following list:				
ZOO3600 - Principles of Animal Behavior	Credits: 3			
ZOO4235 - Marine Biology	Credits: 3			
ZOO4300 - Wildlife Ecology and Management	Credits: 5			
ZOO4310 - Fisheries Management	Credits: 3			
ZOO4350 - Ornithology	Credits: 3			
ZOO4370 - Mammalogy	Credits: 3			
ZOO4380 - Herpetology	Credits: 3			
ZOO4415 - Behavioral Ecology	Credits: 3			
ZOO4420 - Conservation Biology	Credits: 3			
ZOO4540 - Invertebrate Zoology	Credits: 4			
CHEM2230 - Quantitative Analysis	Credits: 5			
SOC3950 - Environmental Sociology	Credits: 3			
AGEC3750 - Natural Resource Planning and Economics	Credits: 3			
LIFE2023 - Biology of Plants and Fungi	Credits: 4			
• BOT 0000:5999 • ENR 0000:5999 • REWM 0000:5999				

Terrestrial Option

A minimum of 10 of the TERRESTRIAL OPTION requirements listed below (BOT 4700 and ZOO 4300 and Restricted Electives) must be exclusive to the WFBM major.

Course Name	Credits:	Term Taken	Grade	Gen Ed
REQUIRED COURSES				
BOT4700 - Vegetation Ecology	Credits: 4			
ZOO4300 - Wildlife Ecology and Management	Credits: 5			
Restricted Electives				
14 Credits of Electives from the following list:				
ZOO3600 - Principles of Animal Behavior	Credits: 3			
ZOO4235 - Marine Biology	Credits: 3			
ZOO4310 - Fisheries Management	Credits: 3			
ZOO4330 - Ichthyology	Credits: 3			
ZOO4350 - Ornithology	Credits: 3			

ZOO4380 - Herpetology	Credits: 3			
ZOO4415 - Behavioral Ecology	Credits: 3			
ZOO4420 - Conservation Biology	Credits: 3			
ZOO4430 - Limnology Laboratory	Credits: 2			
ZOO4440 - Limnology	Credits: 3			
ZOO4540 - Invertebrate Zoology	Credits: 4			
SOC3950 - Environmental Sociology	Credits: 3			
CHEM2230 - Quantitative Analysis	Credits: 5			
AGEC3750 - Natural Resource Planning and Economics	Credits: 3			
LIFE2023 - Biology of Plants and Fungi	Credits: 4			
• BOT 0000:5999 • ENR 0000:5999 • REWM 0000:5999				
Notes:				