

“W” Number: _____
 Student Name: _____
 Advisor Name: _____

Catalog: 2021-2022 University of Wyoming Catalog
Program: Zoology, B.S.

Zoology, B.S.

Zoology is the study of animals: their structure, physiology, development and evolution. One of the enduring fascinations of zoology is that we can learn so much about ourselves and our environment by studying what our fellow creatures do.

At the end of this program students will have a comprehensive knowledge of zoology, will be well prepared for graduate education, and will be equipped to enter any of the many employment opportunities that are available.

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	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			
CHEM2230 - Quantitative Analysis	Credits: 5			
OR				
CHEM2300 - Introductory Organic Chemistry	Credits: 4			
OR				
CHEM2420 - Organic Chemistry I	Credits: 4			
OR				
CHEM2440 - Organic Chemistry II	Credits: 4			
OR				
CHEM3020 - Environmental Chemistry	Credits: 3			
OR				
CHEM3550 - Physical Chemistry for the Life Sciences	Credits: 3			
OR				
CHEM4050 - Solar Energy Conversion	Credits: 3			
OR				
CHEM4230 - Instrumental Methods of Chemical Analysis	Credits: 5			
OR				
CHEM4400 - Biological Chemistry	Credits: 3			
PHYS1110 - General Physics I	Credits: 4			
PHYS1120 - General Physics II	Credits: 4			
LIFE1010 - General Biology	Credits: 4			
LIFE2022 - Animal Biology	Credits: 4			
LIFE3050 - Genetics	Credits: 4			
LIFE3400 - General Ecology	Credits: 3			
LIFE3500 - Evolutionary Biology	Credits: 3			
ZOO4100 - Scientific Communication (or approved USP C3 substitute) AND	Credits: 2			
ZOO4101 - Scientific Communication Lab (or approved USP C3 substitute)	Credits: 1			

Advanced Zoology Course

* if more than one of the required courses is completed, additional courses can count towards the Zoology Approved Core Electives below.

One of:

Course Name	Credits:	Term Taken	Grade	Gen Ed
ZOO4330 - Ichthyology	Credits: 3			
ZOO4350 - Ornithology	Credits: 3			
ZOO4370 - Mammalogy	Credits: 3			
ZOO4380 - Herpetology	Credits: 3			
ZOO4540 - Invertebrate Zoology	Credits: 4			

Zoology Approved Core Electives

A minimum of 10 of 18 Zoology Approved Core Electives must be exclusive to the ZOOL major.

Choose a total of 18 credits from:

Course Name	Credits:	Term Taken	Grade	Gen Ed
ZOO3115 - Human Systems Physiology	Credits: 4			
ZOO3600 - Principles of Animal Behavior	Credits: 3			
ZOO4190 - Comparative Environmental Physiology	Credits: 4			
ZOO4235 - Marine Biology	Credits: 3			
ZOO4300 - Wildlife Ecology and Management	Credits: 5			
ZOO4310 - Fisheries Management	Credits: 3			
ZOO4330 - Ichthyology	Credits: 3			
ZOO4340 - Developmental Biology and Embryology	Credits: 4			
ZOO4350 - Ornithology	Credits: 3			
ZOO4370 - Mammalogy	Credits: 3			
ZOO4380 - Herpetology	Credits: 3			
ZOO4540 - Invertebrate Zoology	Credits: 4			
ZOO4400 - Population Ecology	Credits: 3			
ZOO4415 - Behavioral Ecology	Credits: 3			
ZOO4420 - Conservation Biology	Credits: 3			
ZOO4430 - Limnology Laboratory	Credits: 2			
ZOO4440 - Limnology	Credits: 3			
ZOO4735 - Advanced Topics in Physiology	Credits: 1-4			
ANSC3010 - Comparative Anatomy and Physiology of Domestic Animals	Credits: 4			
ANSC3100 - Principles of Animal Nutrition	Credits: 3			
ANSC3150 - Equine Nutrition and Physiology	Credits: 3			
MOLB3000 - Introduction to Molecular Biology	Credits: 3			
BOT4235 - Marine Biology	Credits: 3			
BOT4550 - Computational Biology	Credits: 4			
BOT4664 - Special Topics in Evolution	Credits: 1-4			
BOT4790 - Special Topics in Ecology	Credits: 1-3			
• GEOG 3150				
GEOG3480 - Environmental Change	Credits: 3			
GIST3140 - Introduction to Remote Sensing	Credits: 3			
ENTO4300 - Insect Ecology	Credits: 3			
ENTO4682 - Insect Anatomy and Physiology	Credits: 5			
ENTO4678 - Aquatic Entomology	Credits: 3			
ENTO4684 - Classification of Insects	Credits: 4			
PATB4170 - Diseases of Wildlife	Credits: 3			
• PATB 4310				
• PATB 4360				
PATB4710 - Medical Virology	Credits: 3			

Notes: