

WILDLIFE BIOLOGY - TERRESTRIAL

Chad Bishop, Wildlife Biology, Director

The Wildlife Biology Program combines the best features of a liberal arts curriculum with scientific preparation in wildlife conservation. The Program provides students with an extensive knowledge in ecology, population biology, conservation biology, and critical thinking and quantitative skills. Our students receive a strong academic and scientific background with an emphasis on hands-on, experiential learning. The educational requirements for certification by The Wildlife Society can be met within the framework of the undergraduate program.

While some employment opportunities exist in wildlife conservation for students with the baccalaureate degree, we encourage students to continue their education through the master's degree to qualify for most state, federal, and private positions.

Two concentrations are offered in the Wildlife Biology Program: terrestrial and aquatic. They both follow the same schedule of courses for the freshman and most of the sophomore year and then pursue different curricula for the last two years. Each leads to a B.S. in Wildlife Biology. The University is well-suited for instruction in wildlife biology because of the excellent opportunities for field instruction and research at Lubrecht Experimental Forest, Flathead Lake Biological Station, and the Theodore Roosevelt Memorial and Bandy ranches. The Montana Forest and Conservation Experiment Station, the Division of Biological Sciences, and the Montana Cooperative Wildlife Research Unit facilitate research.

High School Preparation: In addition to general University admission requirements, the student should elect four years of mathematics and three years of science, including biology, chemistry and physics.

Wildlife Biology Honors - Track

The honors curriculum is designed particularly for students with strong academic records who intend to do graduate work. Entrance into this emphasis is open only to students who, at the beginning of the junior year of the wildlife biology program, have a grade-point average of 3.5 or above and who petition the faculty for entrance.

Honors students must complete either WILD 370, WILD 470 and WILD 494 (terrestrial option) or BIOO 340, BIOE 428 and WILD 494 (aquatic option). Honors students are encouraged to enroll also in WILD 499. The balance of the coursework for the junior and senior years will be developed in consultation with the honors student's faculty.

All students in the honors emphasis are required to meet with their faculty advisor prior to autumn semester registration of their junior and senior years to work out their course schedules.

Bachelor of Science - Wildlife Biology; Terrestrial Concentration

W.A Franke College of Forestry & Conservation

Degree Specific Credits: 76-83

Required Cumulative GPA: 2.5

Catalog Year: 2018-2019

Note: Experiential Learning is required - Students have several options to fulfill this requirement - list is available from the Wildlife Advisor in Forestry 103C.

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.edu/academics/general-education-requirements>) of the catalog.

Summary

Code	Title	Hours
Major Required Courses		29
Major Required Courses - Terrestrial Concentration		22
Outside Major Required Courses		19-20
Upper-Division Writing Requirement		6-12
Total Hours		76-83

Major Required Courses

Code	Title	Hours
Complete all of the following courses:		
BIOB 160N	Principles of Living Systems	3
BIOB 161N	Prncpls of Living Systems Lab	1
BIOB 260	Cellular and Molecular Biology	4
BIOB 272	Genetics and Evolution	4
BIOE 370	General Ecology	3
BIOE 371	Gen Ecology Lab (equiv to 271)	2
WILD 180	Careers in Wildlife Biology	2
WILD 346	Wildlife Physiological Ecology	3
WILD 410	Wildlife Policy & Biopolitics	3
or NRSM 422	Nat Res Policy/Administration	
WILD 480	The Upshot--Appld Wildlife Mgt	3
WILD 494	Senior Wildlife Seminar	1
Total Hours		29

Minimum Required Grade: C-

Major Required Courses - Terrestrial Concentration

Code	Title	Hours
Complete all of the following courses:		
BIOO 335	Rocky Mountain Flora	3
NRSM 360	Rangeland Mgt (equiv 260)	3
or FORS 347	Multiple Resource Silviculture	
WILD 370	Wildlife Habitat Cons & Mgmt	4
WILD 470	Conserv of Wildlife Populatns	4
Complete two of the following courses:		
BIOO 340	Biology and Mgmt of Fishes	
BIOO 470	Ornithology	
BIOO 475	Mammalogy	
Total Hours		22

Minimum Required Grade: C-

Outside Major Required Courses

Code	Title	Hours
Complete all of the following courses:		
CHMY 121N	Introduction to General Chemistry	3
CHMY 123	Introduction to Organic and Biochemistry	4
CHMY 124	Introduction to Organic and Biochemistry Lab	2
COMX 111A	Introduction to Public Speaking	3
M 162	Applied Calculus	4
STAT 216	Introduction to Statistics	3-4
or WILD 240	Intro to Biostatistics	
Total Hours		19-20

Minimum Required Grade: C-

Upper-Division Writing Requirement

Code	Title	Hours
Complete the following course:		2
BIOE 371	Gen Ecology Lab (equiv to 271)	
Complete two of the following courses:		4-10
BIOE 428	Freshwater Ecology	
BIOO 320	General Botany	
BIOO 470	Ornithology	
BIOO 475	Mammalogy	
WILD 408	Advanced Fisheries	
WILD 470	Conserv of Wildlife Populatns	
WILD 499	Thesis	
Total Hours		6-12

Minimum Required Grade: C-