

WILDLIFE BIOLOGY - AQUATIC

Bachelor of Science - Wildlife Biology; Aquatic Concentration

General Education Requirements

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

Summary

Code	Title	Hours
Major Required Courses		37-39
Major Required Courses - Aquatic Concentration		22-21
Outside Major Required Courses		20-21
Total Hours		79-81

Degree Specific Credits: 79-81

Required Cumulative GPA: 2.5

Major Required Courses

Note: WILD 398 fulfills the Wildlife Biology Experiential Learning requirement. Alternatives are possible. See the Wildlife Biology Advisor in the Forestry Building, room 204.

Code	Title	Hours
Complete all of the following courses:		
BIOB 160N	Principles of Living Systems	3
BIOB 161N	Principles 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	General Ecology Lab (equivalent to 271)	2
BIOO 320	General Botany	3-5
or BIOO 335	Rocky Mountain Flora	
WILD 180	Careers in Wildlife Biology	2
WILD 274	Human Dimensions of Wildlife	3
WILD 346	Wildlife Physiological Ecology	3
WILD 398	Internship	2
WILD 410	Wildlife Policy & Biopolitics	3
or NRSM 422	Natural Resource Policy and Administration	
WILD 480	The Upshot--Applied Wildlife Management	3
or BIOB 480	Conservation Genetics	
or BIOM 460	Ecology of Infectious Diseases	
or NRSM 379	Collaborations in Natural Resource Decisions	
or PTRM 300	Recreation Behavior	
WILD 494	Senior Wildlife Seminar	1
Total Hours		37-39

Minimum Required Grade: C-

Major Required Courses - Aquatic Concentration

Code	Title	Hours
Complete all of the following courses:		
BIOE 428	Freshwater Ecology	5
BIOO 340	Biology and Management of Fishes	4
NRSM 385	Watershed Hydrology	3
WILD 280	Fisheries Techniques	3
WILD 408	Advanced Fisheries	3
Complete one of the following courses:		3-4
BIOE 406	Behavior & Evolution	
BIOM 427	General Parasitology	
& BIOM 428	and General Parasitology Lab	
BIOO 462	Entomology	
WILD 485	Aquatic Invertebrate Ecology	
Total Hours		21-22

Minimum Required Grade: C-

Outside Major Required Courses

Code	Title	Hours
Complete all of the following courses:		
CHMY 121N	Introduction to General Chemistry	4
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
or M 171	Calculus I	
STAT 216	Introduction to Statistics	3-4
or WILD 240	Intro to Biostatistics	
Total Hours		20-21

Minimum Required Grade: C-

Advanced College Writing Requirement

Code	Title	Hours
Complete any three of the courses from the following lists:		
The following courses are required in the Aquatic Concentration:		
BIOE 428	Freshwater Ecology	
BIOO 340	Biology and Management of Fishes	
WILD 408	Advanced Fisheries	
The following courses are additional options that can also be used to fulfill the Advanced College Writing requirement:		
BIOB 483	Phylogenetics and Evolution	
BIOE 342	Field Ecology	
BIOE 403	Comparative Vertebrate Anatomy	
BIOE 409	Behavior & Evolution Discussion	
BIOO 340	Biology and Management of Fishes	
BIOO 470	Ornithology	
BIOO 475	Mammalogy	
FORS 330	Forest Ecology	

FORS 341	Timber Harvesting & Roads
FORS 349	Practice of Silviculture
FORS 440	Forest Stand Management
NRSM 344	Ecosystem Science and Restoration Capstone
NRSM 349E	Climate Change Ethics and Policy
NRSM 379	Collaborations in Natural Resource Decisions
NRSM 462	Rangeland Ecology
NRSM 475	Environment & Development
PTRM 300	Recreation Behavior
PTRM 451	Tourism & Sustainability
PTRM 482	Wilderness & Protected Area Management
WILD 410	Wildlife Policy & Biopolitics
WILD 470	Conservation of Wildlife Populations
WILD 499	Thesis

Minimum Required Grade: C-