WILDLIFE BIOLOGY B.S. - AQUATIC

General Degree Requirements

To earn a baccalaureate degree, all students must complete successfully, in addition to any other requirements, the University of Montana General Education Requirements. Please refer to the General Education Requirements page (https://catalog.umt.edu/academics/general-education-requirements/) for more information.

Additional requirements for graduation can be found on the Degree/ Certificate Requirements for Graduation page (https://catalog.umt.edu/academics/graduation-requirements/).

Unless otherwise noted in individual program requirements, a minimum grade point average of 2.00 in all work attempted at the University of Montana-Missoula is required for graduation. Please see the Academic Policies and Procedures page (https://catalog.umt.edu/academics/policies-procedures/) for information on how your GPA is calculated.

Courses taken to satisfy the requirements of a major, minor, or certificate program must be completed with a grade of C- or better unless a higher grade is noted in the program requirements.

Bachelor of Science - Wildlife Biology; Aquatic Concentration

• This major requires a minimum GPA of 2.5.

Course Requirements

Code	Title	Hours			
Major Required Courses					
Complete all of th	ne following courses:				
BIOB 160	Principles of Living Systems	3			
BIOB 161N	Principles of Living Systems Lab	1			
BIOB 170N	Principles of Biological Diversity	3			
BIOB 272	Genetics and Evolution	4			
BIOE 370	General Ecology	3			
BIOE 371	General Ecology Lab (equivalent to 271)	2			
BIOO 320	General Botany	4-5			
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 (fulfills the Wildlife Biology Experiential Learning requirement. Alternatives are possible. See the Wildlife Biology Advisor.)	2			
WILD 410	Wildlife Policy	3			
or NRSM 422	Natural Resources Policy				
or NRSM 427	Water Policy				
or NRSM 428	Climate Policy				
WILD 480	The Upshot-Applied Wildlife Management	3			
or BIOB 480	Conservation Genetics				
or BIOB 486	Genomics				

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
Major Required C	ourses - Aquatic Concentration	
Complete all of th	ne 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	Aquatic Habitat Conservation & Restoration	4
Complete one of	the following courses:	3-4
BIOE 406	Behavior & Evolution	
BIOM 427 & BIOM 428	General Parasitology and General Parasitology Lab	
BIOO 462	Entomology	
WILD 485	Aquatic Invertebrate Ecology	
Outside Major Re	quired Courses	
Complete all of th	ne following courses:	
CHMY 121N	Introduction to General Chemistry	4
COMX 111A	Introduction to Public Speaking	3
M 162	Applied Calculus	4
or M 171	Calculus I	
STAT 216	Introduction to Statistics	4
or WILD 240	Intro to Biostatistics	
Writing in the Dis	ciplines Requirement	
Complete any thr	ee of the courses from the following lists:	
The following cou Concentration:	urses are required in the Aquatic	
BIOE 428	Freshwater Ecology	
BIOO 340	Biology and Management of Fishes	
WILD 408	Aquatic Habitat Conservation & Restoration	
-	courses are additional options that can also ill the Writing in the Disciplines requirement:	
BIOB 483	Phylogenics and Evolution	
BIOE 342	Field Ecology	
BIOE 403	Comparative Vertebrate Anatomy	
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 & International Development	
PTRM 300	Recreation Behavior	
PTRM 451	Tourism & Sustainability	

PTRM 482	Wilderness & Protected Area Management	
WILD 410	Wildlife Policy	
WILD 470	Conservation of Wildlife Populations	
WILD 499	Thesis	
Total Hours		74-76
Four Year	Plan	
Course	Title	Hours
Freshman		
Autumn		
BIOB 160	Principles of Living Systems	4
& BIOB 161N	and Principles of Living Systems Lab	4
CHMY 121N WRIT 101	Introduction to General Chemistry College Writing I	3-4
or COMX 111A	or Introduction to Public Speaking	3-4
WILD 180	Careers in Wildlife Biology	2
Electives/General Edu		2-3
	Hours	15-17
Spring		
M 162	Applied Calculus	4
or M 171	or Calculus I	
BIOB 170N	Principles of Biological Diversity	3
COMX 111A	Introduction to Public Speaking	3-4
or WRIT 101	or College Writing I	
Electives/General Edu		5-6
0	Hours	15-17
Sophomore		
Autumn STAT 216	Introduction to Statistics	4
or WILD 240	or Intro to Biostatistics	4
WILD 280	Fisheries Techniques	3
Experiential Learning		2
Electives/General Edu	cation	7
	Hours	16
Spring		
BIOB 272	Genetics and Evolution	4
WILD 274	Human Dimensions of Wildlife	3
Writing Across Curricu		3
Electives/General Edu		5
	Hours	15
Junior		
Autumn		_
BIOE 370 & BIOE 371	General Ecology and General Ecology Lab (equivalent to 271)	5
WILD 346	Wildlife Physiological Ecology	3
BIOE 406	Behavior & Evolution	4
or BIOM 427 and	or General Parasitology <i>and</i> General Parasitology	·
BIOM 428	Lab	
Elective/General Educ	ation Course	3
	Hours	15
Spring		
NRSM 385	Watershed Hydrology	3
BIOO 335	Rocky Mountain Flora	4
BIOO 340	Biology and Management of Fishes	4
Electives/General Edu		4
	Hours	15
Senior		
Autumn		
NRSM 422 or WILD 410	Natural Resources Policy or Wildlife Policy	3
or NRSM 427	or Witaine Policy	
or NRSM 428	or Climate Policy	

WILD 494	Senior Wildlife Seminar	1
WILD 408	Aquatic Habitat Conservation & Restoration	4
Electives/General Edu	7	
	Hours	15
Spring		
BIOE 428	Freshwater Ecology	5
WILD 480 or BIOB 480 or BIOB 486 or BIOM 460 or NRSM 379 or PTRM 300	The Upshot-Applied Wildlife Management or Conservation Genetics or Genomics or Ecology of Infectious Diseases or Collaborations in Natural Resource Decisions or Recreation Behavior	3
Electives/General Education		7
	Hours	15
	Total Hours	121-125

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