Fish and Wildlife Ecology and Management Option

The option in Fish and Wildlife Management is a professional degree program offered for those students who have an interest employment in these fields. Study leading toward a bachelor's degree emphasizes basic principles of animal ecology, with considerable work in related fields. Students graduating with a bachelor's degree may be qualified for entry-level positions in natural resources management. However, the four-year option primarily provides prospective fish and wildlife biologists adequate background for applying to graduate programs, required for most professional positions.

Freshman Year	Credits	
	Fall	Spring
WILD 201 - Intro to Fish and Wildlife	1	
BIOB 170IN - Principles of Biological Diversity	4	
CHMY 121IN - Introduction to General Chemistry & CHMY 122IN - Introduction to General Chemistry Lab	4	
Choose one of the following:	3	
BIOE 103CS - Environmental Science and Society		
ENSC 110 - Land Resources and Environmental Sciences		
NRSM 101 - Natural Resource Conservation		
University Core and Electives	3	
BIOB 160 - Principles of Living Systems		4
University Core and Electives		9-12
Year Total:	15	13-16
Sophomore Year	Credits	
	Fall	Spring
M 161Q - Survey of Calculus	4	
Choose one of the following:	3-4	
GPHY 284 - Intro to GIS Science & Cartog (Recommended)		
ERTH 101IN - Earth System Sciences		
ENSC 245IN - Soils		
University Core and Electives	6-9	
Choose one of the following:		3-4
ENSC 272CS - Water Resources (Aquatic)		
BIOO 230 - Identification of Seed Plants (Terrestrial)		
CHMY 123 - Introduction to Organic Chemistry and Biochemistry & CHMY 124 - Introduction to Organic and Biochemistry Lab		4
WRIT 201 - College Writing II or WRIT 221 - Intermediate Tech Writing		3
University Core and Electives		3-6
Year Total: Junior Year	13-17 Credits	13-17
	Fall	Spring
Choose one of the following:	3-4	
BIOO 412 - Animal Physiology (Aquatic)		
BIOO 310 - Comparative Vertebrate Anatomy (Terrestrial)		

BIOB 318 - Biometry or STAT 216Q - Introduction to Statistics BIOE 370 - General Ecology University Core and Electives WILD 301 - Princ of Fish & Wildlife Mgmt BIOB 375 - General Genetics University Core and Electives Year Total: Senior Year Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOE 408 - Rocky Mountain Vegetation BIOE 455 - Plant Ecology Or Aquatic: BIOE 427RN - Research in Freshwater Ecology BIOE 428 - Freshwater Ecology Upper Division Directed Electives BIOB 420 - Evolution WILD 401RN - Fish and Wildlife Capstone Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOO 475 - Mammalogy BIOO 470 - Ornithology Or Aquatic: BIOO 415 - Ichthyology BIOO 418 - Ecological Physiology of Aquatic Organisms Upper Division Directed Electives Year Total:	2	
University Core and Electives WILD 301 - Princ of Fish & Wildlife Mgmt BIOB 375 - General Genetics University Core and Electives Year Total: Senior Year Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOE 408 - Rocky Mountain Vegetation BIOE 455 - Plant Ecology Or Aquatic: BIOE 427RN - Research in Freshwater Ecology BIOE 428 - Freshwater Ecology Upper Division Directed Electives BIOB 420 - Evolution WILD 401RN - Fish and Wildlife Capstone Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOO 475 - Mammalogy BIOO 470 - Ornithology Or Aquatic: BIOO 415 - Ichthyology BIOO 418 - Ecological Physiology of Aquatic Organisms Upper Division Directed Electives	3	
WILD 301 - Princ of Fish & Wildlife Mgmt BIOB 375 - General Genetics University Core and Electives Year Total: Senior Year Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOE 408 - Rocky Mountain Vegetation BIOE 455 - Plant Ecology Or Aquatic: BIOE 427RN - Research in Freshwater Ecology BIOE 428 - Freshwater Ecology Upper Division Directed Electives BIOB 420 - Evolution WILD 401RN - Fish and Wildlife Capstone Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOO 475 - Mammalogy BIOO 470 - Ornithology Or Aquatic: BIOO 415 - Ichthyology BIOO 418 - Ecological Physiology of Aquatic Organisms Upper Division Directed Electives	3	
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Year Total: Senior Year Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOE 408 - Rocky Mountain Vegetation BIOE 455 - Plant Ecology Or Aquatic: BIOE 427RN - Research in Freshwater Ecology BIOE 428 - Freshwater Ecology Upper Division Directed Electives BIOB 420 - Evolution WILD 401RN - Fish and Wildlife Capstone Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOO 475 - Mammalogy BIOO 470 - Ornithology Or Aquatic: BIOO 415 - Ichthyology BIOO 418 - Ecological Physiology of Aquatic Organisms Upper Division Directed Electives		3
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Aquatic): Terrestrial: BIOE 408 - Rocky Mountain Vegetation BIOE 455 - Plant Ecology Or Aquatic: BIOE 427RN - Research in Freshwater Ecology BIOE 428 - Freshwater Ecology Upper Division Directed Electives BIOB 420 - Evolution WILD 401RN - Fish and Wildlife Capstone Take one of the following pairs(Terrestrial or Aquatic): Terrestrial: BIOO 475 - Mammalogy BIOO 470 - Ornithology Or Aquatic: BIOO 415 - Ichthyology BIOO 418 - Ecological Physiology of Aquatic Organisms Upper Division Directed Electives	Credits	
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Organisms Upper Division Directed Electives		3
Upper Division Directed Electives		3
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Year Total:		3-6
	18-21	22-25
Total Program Credits:		120

A minimum of 120 credits is required for graduation; at least 42 of these credits must be in courses numbered 300 and above. The curriculum includes 32-35 required credits numbered 300 and above, and an additional nine to twelve upper division directed elective credits must be selected. Additional upper division electives must be taken in biology, fish and wildlife, or a related field (ANSC, NRSM, ENSC, GPHY, and STAT). Students should consult with their advisor about the appropriateness of potential upper division electives taken outside the Biology set or WILD rubrics. This curriculum satisfies all except 18 credits of the University Core Requirements. Students are expected to be aware of all requirements for graduation and to ensure that they meet these requirements.