

BS in Natural Resource Science and Management with Emphasis in Fisheries and Wildlife Sciences

Degree Program Description

The Natural Resource Science and Management degree with an emphasis in Fisheries and Wildlife Sciences has a strong focus on taxonomy and includes additional required courses on research and management techniques. Students with degrees in Natural Resource Science and Management with an emphasis in Fisheries and Wildlife work as conservation biologists, ecologists, fisheries biologists, ornithologists, and wildlife biologists.

Major Program Requirements

In addition to completing major program requirements (<https://catalog.missouri.edu/collegeofagriculturefoodandnaturalresources/naturalresourcesciencemanagement/bs-natural-resource-science-management/>), students must complete the following additional requirements:

Degree Program Requirements-Emphasis Area

F_W 1100	Introductory Zoology with Laboratory	5
or BIO_SC 1500	Introduction to Biological Systems with Laboratory	
or BIO_SC 1010 & BIO_SC 1020	General Principles and Concepts of Biology and General Biology Laboratory	
F_W 2500	Introduction to Genetics and Evolution for Conservation	3-4
or BIO_SC 2200	General Genetics	
or AN_SCI 3213	Genetics of Agricultural Plants and Animals	
F_W 2900	Principles of Wildlife Management	4
F_W 4300	Fisheries Management	3
F_W 4400	Fisheries Techniques	3-4
or F_W 4700	Wildlife Ecology Methods	
or ENV_SC 4308	Methods in Stream Ecology	
F_W 4500	Animal Population Dynamics and Management	3
Zoology Courses (choose 3; 2 of which need to be F_W)		
F_W 2600	Ornithology	4
F_W 2700	Ichthyology	4
F_W 3660	Mammalogy	4
BIO_SC 3260W	Invertebrate Zoology - Writing Intensive	3
PLNT_SCI 3710	Introductory Entomology	3
Professional Electives (Choose 3 Courses)		
Exceptions may be made for related minors, certificates, study abroad, and service learning experiences		
NAT_R 2080	Outdoor Recreation Consortium	2
F_W 3700	Animal Behavior	3
F_W 4200W	Urban Wildlife Conservation - Writing Intensive	3
F_W 4220	Human Dimensions of Fish and Wildlife Conservation	3
F_W 4810	Wildlife Disease Ecology	3

NAT_R 4353	Natural Resource Policy/Administration If took ENV_SC 4400W or PRST 3230 to complete degree req	3
ENV_SC 2600	Sustainability Foundations: An Introduction to Sustainability	3
ENV_SC 3400	Water Quality and Natural Resources Management	3
or FOREST 4390	Watershed Management and Water Quality	
ENV_SC 4024	Foundations of Environmental Education If used PRST 3231 to complete degree req	3
ENV_SC 4051	Environmental Art	3
ENV_SC 4100	Lake Ecology	3
ENV_SC 4200W	Stream Ecology and Hydrology - Writing Intensive	3
ENV_SC 4400W	Environmental Law, Policy, and Justice - Writing Intensive If used NAT_R 4353 or PRST to complete degree req	3
ENV_SC 4600W	Sustainability Science Problem Solving - Writing Intensive	3
FOREST 3207	Forest Fire Control and Use	3
FOREST 4330	Practice of Silviculture	4
FOREST 4341	Forest Harvesting and the Environment	3
PRST 2111	Park Planning and Design	3
PRST 3230	Outdoor Recreation Policy If took NAT_R 4353 or ENV_SC 4400W to complete degree reqs	3
PRST 3231	Interpretation of Natural and Cultural Resources If took ENV_SC 4024 to complete degree requirement	3
PRST 4250	Parks, Health and Wellness	3
PRST 4340	Recreation Land Management	3
AN_SCI 3242	Principles and Applications of Animal Nutrition	4
AN_SCI 3254	Physiology of Domestic Animals	5
or AN_SCI 3253	Physiology of Domestic Animals- All Majors	

Semester Plan

Below is a sample semester plan for the Fisheries and Wildlife Emphasis Area. A student's actual plan may vary due to course choices, course availability, transfer courses, and minors/certificates pursued. Please consult with your advisor prior to registering for courses.

First Year					
Fall	CR	Spring	CR		
PLNT_SCI 1500 or BIO_SC 1200		4 F_W 1100		5	
MATH 1100		3 ENGLSH 1000		3	
NAT_R 1070		3 NAT_R 2325		3	
ATM_SC 1050		3 CHEM 1400		3	
SSC 1150		2 CHEM 1401		1	
			15	15	
Second Year					
Fall	CR	Spring	CR	Summer	CR
F_W 2900		4 SOIL 2100		3 NAT_R 4950	3
ABM 2070W		3 PRST 3231		3	
FOREST 2151		4 Zoology Course		4	
STAT 2500		3 MATH 1400		3	

Humanities & Fine Arts 3

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Third Year

Fall	CR	Spring	CR
Humanities & Fine Arts	3	Zoology Course	4
NAT_R 4110	4	Zoology Course	4
BIO_SC 2200	4	F_W 4500	3
FOREST 4320	5	Behavioral or Social Science	3
		SOIL 2106	2
16		16	

Fourth Year

Fall	CR	Spring	CR
Missouri State Law Requirement	3	NAT_R 4353	3
F_W 4300	3	F_W 4650	4
Professional Elective	3	Professional Elective	3
F_W 4600W	3	Professional Elective	4
F_W 4700	4		
16		14	

Total Credits: 125