

## BS in Natural Resource Science and Management

## **Degree Program Description**

The Natural Resource Science and Management degree addresses the science, art, and craft of creating, managing, using, conserving, and repairing natural and human-dominated ecosystems, in a sustainable manner, to meet desired societal goals. The degree has elements that belong to the biological, physical, social, political and managerial sciences that are applied to conserving plant and animal species in forests, grasslands, rivers and streams, and urban areas. The degree also develops students' skills in working with diverse groups of people. Students with degrees in Natural Resource Science and Management work as fisheries biologists, foresters, interpreters, naturalists, and wildlife biologists for state and federal agencies, nature centers and museums, and consulting firms.

Students pursuing a degree in Natural Resource Science and Management must individualize their degree by choosing one of four emphasis areas. The Forest Resources emphasis prepares students to manage forests in order to protect wildlife habitats and the environment while meeting the ever-growing demand for wood products. The Human Dimensions emphasis trains students to apply social sciences to address questions about how people's attitudes, knowledge, values and behaviors impact management of our natural resources. The Fisheries and Wildlife Science emphasis focuses upon development of skills in conservation of wildlife habitat, protection of endangered species, and management of wild animal populations. The Terrestrial Ecosystem emphasis allows students to combine interests in wildlife management and forestry to both conserve biodiversity and satisfy the needs of society for renewable natural resources using the practice of ecosystem management.

## **Major Program Requirements**

Students earning a Bachelor of Science in Natural Resource Science and Management are required to complete all University general education (http://catalog.missouri.edu/academicdegreerequirements/ generaleducationrequirements/), University graduation, (http://catalog.missouri.edu/academicdegreerequirements/ universityrequirements/) and degree requirements, including selected foundational courses, which may fulfill University general education requirements.

Students majoring in Natural Resource Science and Management may select one of the following emphasis areas:

- Forest Resources (http://catalog.missouri.edu/ collegeofagriculturefoodandnaturalresources/ naturalresourcesciencemanagement/bs-natural-resource-sciencemanagement-emphasis-forest-resources/)
- · Fisheries and Wildlife Science (http://catalog.missouri.edu/ collegeofagriculturefoodandnaturalresources/ naturalresourcesciencemanagement/bs-natural-resource-sciencemanagement-emphasis-fisheries-wildlife-sciences/)
- · Human Dimensions (http://catalog.missouri.edu/ collegeofagriculturefoodandnaturalresources/ naturalresourcesciencemanagement/bs-natural-resource-sciencemanagement-emphasis-human-dimensions/)

· Terrestrial Ecosystems (http://catalog.missouri.edu/ collegeofagriculturefoodandnaturalresources/ naturalresourcesciencemanagement/bs-natural-resource-sciencemanagement-emphasis-terrestrial-ecosystems/)

Students are admissible to transfer into this program with a 2.0 term GPA and 2.0 cumulative GPA, and are directly admissible into the program when they meet the University admissions requirements.

Students planning to transfer courses (including AP credit) and seeking information on how they apply to a degree program(s), can email CAFNRadvising@missouri.edu for general recommendations.

Foundational Courses		21-22
MATH 1100	College Algebra	3
MATH 1400	Calculus for Social and Life Sciences I	3
ATM_SC 1050	Introductory Meteorology	3-4
or PHYSCS 1210	College Physics I	
SOIL 2100	Introduction to Soils FR and TE emphasis areas MUST take Soil 2100 and Soil 2106	3
or GEOL 1100	Introduction to the Earth with Laboratory	
SOIL 2106	Soil Science Laboratory FR and TE emphasis areas MUST take Soil 2100 and Soil 2106	2
or GEOL 1100	Introduction to the Earth with Laboratory	
CHEM 1320	College Chemistry I	4
ABM 1041	Applied Microeconomics	3
or ABM 1042	Applied Macroeconomics	
or ABM 2070W	Environmental Economics and Policy - Writing Intensive	
Degree Program Requirem	ents	41-43
ABM 2123	Quantitative Applications in Agricultural and Natural Resource Sciences	3
or STAT 2500	Introduction to Probability and Statistics I	
NAT_R 1070	Ecology and Conservation of Natural Resources	3
PRST 3231	Interpretation of Natural and Cultural Resources	3
or ENV_SC 4024	Foundations of Environmental Education	
BIO_SC 1200	General Botany with Laboratory	3-5
or PLNT_SCI 2110	Plants and their Cultivation	
FOREST 2151	Dendrology	4
NAT_R 4110	Natural Resource Biometrics	4
F_W 4600W	Ecosystem Management - Writing Intensive	3
NAT_R 2325	Introduction to Geographic Information Systems	3
or GEOG 3040	Introduction to Geographic Information Systems	GIS
NAT_R 4353	Natural Resource Policy/Administration	3
or ENV_SC 4400W	Environmental Law, Policy, and Justice - Writing Intensive	)
or PRST 3230	Outdoor Recreation Policy	
FOREST 4320	Forest Ecology	5
or BIO_SC 3650	General Ecology	
NAT_R 4940	Natural Resources Science and Management Internship	3
or NAT_R 4950	Undergraduate Research in Natural Resources Science and Management	



F\_W 4650 Natural Resource Planning and Management (Capstone)

Emphasis Area Requirements 40-44

## **Semester Plan**

Below is a sample semester plan for the B.S. in Natural Resource Science and Management. Please consult with your advisor prior to registering for courses.

First Year					
Fall	CR	Spring	CR		
BIO_SC 1200	5	NAT_R 2325	3	<b>;</b>	
NAT_R 1070	3	ENGLSH 1000	3	}	
ATM_SC 1050	3	Emphasis Area Course	3-5	i	
MATH 1100	3	PRST 3231	3	1	
	14		12-14	ļ	
Second Year					
Fall	CR	Spring	CR		
FOREST 2151	4	SOIL 2100	3	<b>.</b>	
ABM 1041	3	CHEM 1320	4	ı	
Missouri State Law Requirement		Emphasis Area Course	3-5		
Humanities & Fine Arts	3	Humanities & Fine Arts	3		
Emphasis Courses	3-4	Humanities & Fine Arts	3	<b>;</b>	
	16-17		16-18	1	
Third Year					
Fall	CR	Spring	CR	Summer	CR
SOIL 2106	2	Emphasis Area Course	3	NAT_R 4950 or 4940	3
MATH 1400	3	Emphasis Area Course	4		
NAT_R 4110	4	Emphasis Area Course	5	i	
ABM 2123	3	Emphasis Area Course	3	1	
Approved Econ Course	3				
	15		15	;	3
Fourth Year					
Fall	CR	Spring	CR		
F_W 4600W	3	NAT_R 4353	3	1	
Emphasis Area Course	3	F_W 4650	4		
Emphasis Area Course	3	Emphasis Area Course	3	1	
Emphasis Area Course	3	Emphasis Area Course	4		
Behavioral or Social Science	3				
	15		14		

Total Credits: 120-125