# 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 (http://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 | |
| 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 | Techniques for Fisheries Management and Conservation | 3-4 |
| or F_W 4700 | Wildlife Ecology Methods | |
| or NAT_R 4300 | Methods in Lake Ecology | |
| F_W 4500 | Animal Population Dynamics and Management | 3 |
| **Zoology Courses (choose 3; minimum 2 courses from FW)** | | **11-13** |
| F_W 2600 | Ornithology | 5 |
| F_W 2700 | Ichthyology | 4 |
| F_W 3660 | Mammalogy | 4 |
| BIO_SC 3260W | Invertebrate Zoology - Writing Intensive | |
| PLNT_SCI 3710 | Introductory Entomology | |
| **Emphasis Courses** | | **9** |
| NAT_R 2080 | Outdoor Recreation Consortium | 2 |
| NAT_R 3400 | Water Quality and Natural Resource Management | 3 |
| or FOREST 4390 | Watershed Management and Water Quality | |
| NAT_R 4100 | Lake Ecology | 3 |
| ENV_SC 2600 | Sustainability Foundations: An Introduction to Sustainability | 3 |
| ENV_SC 4200 | Stream Ecology and Hydrology | 3 |
| ENV_SC 4600W | Sustainability Science Problem Solving - Writing Intensive | 3 |
| F_W 3700 | Animal Behavior | 3 |
| F_W 3900 | Ecology of Fishes | 3 |
| F_W 4200W | Urban Wildlife Conservation - Writing Intensive | 3 |
| F_W 4220 | Human Dimensions of Fish and Wildlife Conservation | 3 |
| F_W 4800 | Environmental Toxicology | 3 |
| F_W 4810 | Wildlife Disease Ecology | 3 |
| F_W 4880 | Waterfowl Ecology and Management | 3 |

## Semester Plan

Below is a sample semester plan for the Fisheries and Wildlife Emphasis Area. Please consult with your advisor prior to registering for courses.

| First Year | | | | | |
|---|---|---|---|---|---|
| **Fall** | **CR** | **Spring** | **CR** | | |
| BIO_SC 1200 | 5 | F_W 1100 | 5 | | |
| NAT_R 1070 | 3 | ENGLSH 1000 | 3 | | |
| ATM_SC 1050 | 3 | NAT_R 2325 | 3 | | |
| MATH 1100 | 3 | CHEM 1320 | 4 | | |
| | **14** | | **15** | | |
| **Second Year** | | | | | |
| **Fall** | **CR** | **Spring** | **CR** | | |
| F_W 2900 | 4 | SOIL 2100 | 3 | | |
| FOREST 4320 | 5 | PRST 3231 | 3 | | |
| NAT_R 4110 | 4 | Zoology Course | 4 | | |
| FOREST 2151 | 4 | MATH 1400 | 3 | | |
| | | Humanities & Fine Arts | 3 | | |
| | **17** | | **16** | | |
| **Third Year** | | | | | |
| **Fall** | **CR** | **Spring** | **CR** | **Summer** | **CR** |
| SOIL 2106 | 2 | Zoology Course | 4 | NAT_R 4950 or 4940 | 3 |
| F_W 4500 | 3 | Professional Elective | 3 | | |
| Humanities & Fine Arts | 3 | F_W 4700 | 4 | | |
| ABM 2070W | 3 | BIO_SC 2200 | 4 | | |
| ABM 2123 | 3 | | | | |
| | **14** | | **15** | | **3** |
| **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 | Zoology Course | 5 | | |
| F_W 4600W | 3 | Professional Elective | 4 | | |
| Behavioral or Social Science | 3 | | | | |
| | **15** | | **16** | | |

**Total Credits: 125**