BSFW in Fisheries and Wildlife

Major Program Requirements

In addition to courses that satisfy General Education [Requirements](http://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements) requirements, students earning a BS in Fisheries and Wildlife Sciences must complete required F&W courses and elective options to reach 125 credits. **Students must earn C- or better in all courses applied to degree.**

Major core requirements

**Science core:**
- CHEM 1320 College Chemistry I 4
- Earth Science (select one) 4-5
  - GEOL 1100 Principles of Geology with Laboratory
  - SOIL 2100 & SOIL 2106 Introduction to Soils and Soil Science Laboratory
- Physics (select one) 3-4
  - PHYSCS 1210 College Physics I
  - ATM_SC 1050 Introductory Meteorology

**General Biology**
- BIO_SC 1200 General Botany with Laboratory 5
- F_W 1100 Introductory Zoology with Laboratory 5
- or BIO_SC 1500 Introduction to Biological Systems with Laboratory
- BIO_SC 3650 General Ecology 5

**Animal Form/Function course (select one)** 4-5
- MPP 3202 Elements of Physiology
- AN_SC 3254 & AN_SC 3255 Physiology of Domestic Animals and Physiology of Domestic Animals Laboratory
- BIO_SC 2300 Introduction to Cell Biology

**Genetics (select one)** 3-4
- F_W 2500 Introduction to Genetics and Evolution for Conservation
- BIO_SC 2200 General Genetics
- AN_SC 3213 Genetics of Agricultural Plants and Animals

**Math Sequence**
- MATH 1100 College Algebra 3
- MATH 1400 Calculus for Social and Life Sciences I 3
- STAT 2530 Statistical Methods in Natural Resources 3

**Professional Core**
- NAT_R 1070 Ecology and Renewable Resource Management 3
- Public Speaking (select one) 3
- AG_ED_LD 2220 Verbal Communication in Agriculture, Food and Natural Resources 3
- COMMUN 1200 Public Speaking 3
- P_R_TR 3231 Principles of Interpretive Outdoor Recreation
- Plant Taxonomy (select one) 4
  - BIO_SC 3210 Plant Systematics
  - FOREST 2151 Dendrology
- NAT_R 4353 Natural Resource Policy/Administration 3
- NAT_R 3110 Natural Resource Biometrics 3

**Introduction to Conservation Biology** 3
**Animal Population Dynamics and Management** 3

**Senior Capstone Course - Choose from approved selection of 4000 level Fisheries and Wildlife courses below**

**Professional Track**
- Course (select 7 courses plus one capstone course, minimum 27 hours, with at least two courses from each track. Note: tracks do not appear on transcript) 24
- **Terrestrial Track** (select 2 from Terr A; Terr B; any 2 from Aquatic Track; and any one other Professional Track course) 4
  - A. Science and Natural History
    - F_W 2600 Ornithology
    - F_W 3660 Mammalogy
  - Not more than one from this group:
    - BIO_SC 3260 Invertebrate Zoology
    - BIO_SC 3360 Herpetology
    - BIO_SC 3710 Introductory Entomology & BIO_SC 3715 and Insect Diversity
  - B. Management and Applications
    - F_W 2900 Principles of Wildlife Management
    - F_W 4220 Human Dimensions of Fish and Wildlife Conservation
    - F_W 4600 Ecosystem Management
    - F_W 4650 Wildlife Management Planning
    - F_W 4880 Waterfowl Ecology and Management 3

**Aquatic Track**
- (select 2 from Aquatic A; 2 from Aquatic B; any two from Terrestrial Track; and any one other Professional Track course)
  - A. Science and Natural History
    - F_W 2700 Ichthyology
    - F_W 4100 Limnology
  - Not more than one from this group:
    - BIO_SC 3260 Invertebrate Zoology
    - BIO_SC 3360 Herpetology
    - BIO_SC 3710 Introductory Entomology & BIO_SC 3715 and Insect Diversity
  - B. Management and Applications
    - F_W 3400 Water Quality and Natural Resource Management
    - F_W 3900 Ecology of Fishes
    - F_W 4300 Fisheries Management
    - F_W 4400 Techniques for Fisheries Management and Conservation

**Disciplinary Electives**
can be used as seventh Professional Track course. Choose from a list of approved courses.

**Semester Plan**

Below is a sample plan of study, semester by semester. A student’s actual plan may vary based on course choices where options are available.

**First Year**

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Total Credits: 124