

Bachelor of Science in Wildlife and Fisheries Science^a
Wildlife Health Concentration – 2018-19 Catalog

Department of Forestry, Wildlife and Fisheries
 University of Tennessee, Knoxville

Student _____ Advisor _____

| Fall Semester | Year 1 | Spring Semester |
|--|--|---|
| _____ (3) BIOL 150 - Organismal/Ecological Biology | _____ (2) BIOL 159 – Skills of Biological Investigations | _____ (3) BIOL 160 - Cellular and Molecular Biology |
| _____ (3) MATH 125 - Basic Calculus | _____ (4) CHEM 120 - General Chemistry | _____ (3) ENGL 102 - English Composition II |
| _____ (3) ENGL 101 - English Composition I | _____ (3) ENGL 102 - English Composition II | _____ (3) FWF 250 - Conservation |
| _____ (1) WFS 100 Introduction to Wildlife & Fisheries | | |
| _____ (1) WFS 101 Current Topics in Wildlife Health | | |
| _____ (3) Arts & Humanities Elective ^b | | |
| 14 | | 15 |

| Fall Semester | Year 2 | Spring Semester |
|---|---|---|
| _____ (3) ANSC 220 - Animal Anatomy and Physiology | _____ (2) BIOL 260 - Ecology | _____ (2) BIOL 269 - Ecology Field-Based Laboratory |
| _____ (4) CHEM 130 - General Chemistry II | _____ (3) CHEM 260 - Foundations of Organic Chemistry | _____ (3) MATH 115 - Stat Reason OR STAT 201 Intro Stats |
| _____ (3) FWF 315 - Principles of Wildlife & Fisheries Management | _____ (3) Social Science Elective ^b | _____ (3-4) ANSC 340 - Animal Breeding and Genetics OR |
| _____ (3) Arts and Humanities Elective ^b | | BIOL 240 - General Genetics |
| _____ (3) Cultures & Civilizations Elective ^b | | |
| 16 | | 16-17 |

| Fall Semester | Year 3 | Spring Semester |
|---|--|---|
| _____ (3) CHEM 360 - In-depth Organic Chemistry | _____ (4) PHYS 222 - Elements of Physics | _____ (3) Wildlife Ecology and Management Elective ^e |
| _____ (2) CHEM 369 - Organic Chemistry Lab | _____ (3) Cultures & Civilizations Elective ^b | _____ (4) AREC 201 - Econ Global Food/Fiber System OR |
| _____ (4) PHYS 221 - Elements of Physics | | ECON 201 - Intro Econ: A Survey Course |
| _____ (3) Communications Elective ^c | | |
| _____ (3) Technical Elective ^d | | |
| 15 | | 14 |

| Fall Semester | Year 4 | Spring Semester |
|---|---|--|
| _____ (4) BCMB 401 - Biochemistry I | _____ (3) BCMB 311 - Advanced Cellular Biology | _____ (3) WFS 401 - Ecology & Mgt of Wildlife Health |
| _____ (2) BIOL 220 - General Microbiology | _____ (6) Wildlife Ecology and Management Elective ^e | _____ (3-4) Science Elective ^g |
| _____ (2) BIOL 229 - General Microbiology Laboratory | | |
| _____ (3) WFS 431 - Wildlife Physiology and Nutrition | | |
| _____ (3-5) Physiology Elective ^f | | |
| 14-16 | | 15-16 |

^a 120 hours required for graduation; courses listed by department, number and title are required.

^b General Education electives - choose from the University General Education list. Students must complete one course from the Social Sciences list, two courses from the Arts and Humanities list, and two courses from the Cultures and Civilizations list. One of these courses must also be a Communicating through Writing (WC) course.

^c Communications elective - choose from CMST 210, CMST 240; ALEC 240.

^d Technical elective – choose from ANSC 280, ANSC 320, ANSC 330, ANSC 380, ANSC 489; BSET 326; EPP 525; FWF 430; GEOG 311, GEOG 411, GEOG 413.

^e Wildlife Ecology and Management elective - choose from WFS 433, WFS 443, WFS 444, WFS 445.

^f Physiology elective – choose from BCMB 230, BCMB 440; WFS 450.

^g Science elective - any course(s) not already required for the major.

Elective Choices:

Technical elective –

- ANSC 280 Livestock Management and Well-being
- ANSC 320 Reproductive Physiology and Lactation
- ANSC 330 Comparative Animal Nutrition
- ANSC 380 Animal Health Management
- ANSC 489 Companion and Exotic Animal Management
- BSET 326 GIS/GPS Applications in Agriculture and Environmental Science
- EPP 525 Medical and Veterinary Entomology
- FWF 430 Introduction to Geographic Information Systems (GIS) for Natural Resources
- GEOG 311 Geovisualization and Geographic Information Science
- GEOG 411 Intermediate Geographic Information Science
- GEOG 413 Remote Sensing of the Environment

Wildlife Ecology and Management electives –

- WFS 433 Amphibian Ecology and Conservation
- WFS 443 Fisheries Science
- WFS 444 Ecology and Management of Wild Mammals
- WFS 445 Ecology and Management of Wild Birds

Physiology elective –

- BCMB 230 Human Physiology
- BCMB 440 General Physiology
- WFS 450 Fish Physiology

Communications elective –

- ALEC 240 Presentation and Sales Strategies for Agricultural Audiences
- CMST 210 Public Speaking
- CMST 240 Business and Professional Communication