

Wildlife and Fisheries Management Concentration – 2021-22 Catalog

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

Year 1	
Fall Semester	Spring Semester
_____ (1) WFS 100 - Introduction to Wildlife & Fisheries	_____ (2) BIOL 159 - Skills of Biological Investigations
_____ (3) ENGL 101 - English Composition I	_____ (3) BIOL 160 - Cellular and Molecular Biology
_____ (3) BIOL 150 - Organismal/Ecological Biology	_____ (3) MATH 125 - Basic Calculus
_____ (3) Cultures & Civilizations Elective ^b	_____ (3) ENGL 102 - English Composition II
_____ (3) Arts & Humanities Elective ^b	_____ (3) FWF 250 - Conservation
13	14
Year 2	
Fall Semester	Spring Semester
_____ (4) ESS 210 - Introduction to Soil Science	_____ (2-3) BIOL 260 - Ecology OR FORS 215 - Forest Ecology
_____ (3) FWF 212 - Dendrology & Silvics of North Amer. Trees	_____ (3) MATH 115 - Stat Reason OR STAT 201 Intro Stats
_____ (3) GIS Elective ^c	_____ (3) Communications Elective ^e
_____ (4) CHEM 122 and CHEM 123 - Gen Chem I/Gen Chem I lab	_____ (3) Social Science Elective ^b
_____ (3) Technical Writing Elective ^d	_____ (4) Economics Elective ^f
17	15-16
Year 3	
Fall Semester	Spring Semester
_____ (4) EEB 474 - Ichthyology OR EEB - 444 Diversity of Fishes	_____ (1) FWF 310 - Wildland Fire Behavior & Mgt
_____ (3) FWF 315 - Principles of Wildlife & Fisheries Mgmt.	_____ (3) FWF 312 - Principles of Silviculture ^b
_____ (3) Anatomy and Physiology Elective ^g	_____ (3) FWF 313 - Measurements and Sampling
_____ (3) Aquatic Elective ^h	_____ (3) WFS 444- Ecology & Mgmt. Wild Mammals OR WFS 445 - Ecology & Mgmt. Birds
_____ (3) Plant Elective ⁱ	_____ (3) Wildlife Ecology and Management Elective ^j
16	16
Year 4	
Fall Block	Spring Semester
_____ (2) WFS 305 - Prescribed Fire Management	_____ (3) FWF 416 - Plan & Mgt FWF Resources
_____ (2) WFS 324 - Wildlife Habitat Evaluation	_____ (3) Human Dimensions Elective ^k
_____ (2) WFS 340 - Wetlands Ecology & Management	_____ (2-4) Science Elective ^l
_____ (1) WFS 350 - Wildlife Damage Management	_____ (3) Arts and Humanities Elective ^b
_____ (2) WFS 440 - Wildlife Techniques	_____ (3) WFS 443 - Fisheries Science OR WFS 452 - Ecology and Management of Fishes
_____ (3) WFS 442 - Fisheries Techniques	_____ (1) WFS 461 - Professional Development in WFS
_____ (2) FWF 415 - Upland Habitat Management	
14	15-17

^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. FWF 312 meets the Communication through Writing (WC) requirement.

^c GIS elective - choose from FWF 430, ESS 326, GEOG 311, GEOG 413.

^d Technical Writing Elective - choose from ENG 295, ENGL 360, JREM 450, JREM 451.

^e Communications elective - choose from ALEC 240, CMST 210, CMST 217, CMST 240, CMST 247.

^f Economics elective - choose from AREC 201, ECON 201, ECON 207, ECON 211, ECON 213.

^g Anatomy and Physiology elective - choose from AS 220, BCMB 230, EEB 353, WFS 431, WFS 450.

^h Aquatic elective - choose from EEB 471, ESS 424, ESS 462, GEOG 436, GEOG 453, GEOL 456, GEOL 459, GEOL 485, WFS 420, WFS 441.

ⁱ Plant elective - choose from EEB 330, EEB 414, EEB 424, EEB 426, EEB 433, FWF 325S, PLSC 421.

^j Wildlife Ecology and Management electives - choose one not used to meet other requirements WFS 433, WFS 434, WFS 444, WFS 445.

^k Human Dimensions elective - choose from FORS 422, FWF 320, FWF 420, SOCI 360, SOCI 465.

^l Any 300-level or above course in WFS, FWF, FORS, EEB, EPP, ANSC, MICR, or BCMB.

Elective Choices:

GIS Elective:

ESS 326 GIS/GPS Applications in Agriculture and Environmental Science
FWF 430 Introduction to Geographic Information Systems (GIS) for Natural Resources
GEOG 311 Geovisualization and Geographic Information Science
GEOG 413 Remote Sensing of the Environment

Technical Writing Elective:

ENG 295 Business and Technical Writing
ENGL 360 Technical and Professional Writing
JREM 450 Writing about Science and Medicine
JREM 451 Environmental Writing

Communications elective:

ALEC 240 Presentation and Sales Strategies for Agricultural Audiences
CMST 210 Public Speaking
CMST 217 Honors: Public Speaking
CMST 240 Business and Professional Communication
CMST 247 Honors: Business and Professional Communication

Economics Elective:

AREC 201 Econ Global Food/Fiber System
ECON 201 Introductory Economics: A Survey Course
ECON 207 Honors: Introductory Economics
ECON 211 Principles of Microeconomics
ECON 213 Principles of Macroeconomics

Anatomy and Physiology Elective:

ANSC 220 Animal Anatomy and Physiology
BCMB 230 Human Physiology
EEB 353 Comparative Vertebrate Biology
WFS 431 Wildlife Physiology and Nutrition
WFS 450 Fish Physiology

Aquatic Elective:

EEB 471 Aquatic Macroecology and Conservation
ESS 424 Environmental Stormwater Management
ESS 462 Environmental Climatology
GEOG 436 Water Resources
GEOG 453 Extreme Weather Climatology
GEOL 456 Global Climate Change
GEOL 459 Introduction to Oceanography
GEOL 485 Principles of Hydrogeology
WFS 420 Identification and Ecology of Freshwater Mussels
WFS 441 Stream Ecology

Plant Elective:

EEB 330 Field Botany
EEB 414 Plant Anatomy
EEB 424 Plant Diversity and Evolution
EEB 426 Plant Animal Interactions
EEB 433 Plant Ecology
FWF 325S Wildlife Vegetation and Habitat
PLSC 421 Native Plants in the Landscape

Wildlife Ecology and Management Elective:

WFS 433 Amphibian Ecology and Conservation
WFS 434 Ecology and Conservation of Tropical Mammals
WFS 444 Ecology and Management of Wild Mammals
WFS 445 Ecology and Management of Wild Birds

Human Dimensions Elective:

FORS 422 Forest and Wildland Resource Policy
FWF 320 Human Dimensions of Natural Resources
FWF 420 International Natural Resource Issues
SOC1 360 Environment and Resources
SOC1 465 Social Values and the Environment