WILDLIFE & FISHERIES BIOLOGY (WFB)

Courses

WFB 013. Intro to Wildlife Tracking. 1 Credit.
This outdoor course is designed to introduce the student to wildlife track identification and analysis at the UVM Jericho Research Forest. Cross-listed with: FOR 013.

WFB 014. Wildlife Trail Analysis. 1 Credit.
This outdoor course is designed to introduce the student to analysis and interpretation of wildlife trails at the UVM Jericho Research Forest. Cross-listed with FOR 014.

WFB 015. Wildlife Track Analysis. 1 Credit.
This course introduces students to the details and clues left inside animal tracks including major body movements including speed, changes of direction and head position. Cross-listed with FOR 015.

WFB 074. Wildlife Conservation. 3 Credits.
Historical and contemporary values of wildlife; impacts on habitats and populations; strategies for conservation, allocation, and use. Nonmajors only. Prerequisite: Basic understanding of biological terms and concepts.

WFB 130. Ornithology. 3 Credits.
Taxonomy, classification, identification, morphology, physiology, behavior, and ecology of birds. Prerequisite: BIOL 001, BIOL 002, or equivalent.

WFB 131. Field Ornithology. 2 Credits.
Identification and field studies of birds, emphasizing resident species. Two weeks in summer. Prerequisite: WFB 130. Preference to WFB majors.

WFB 141. Field Herpetology. 3 Credits.
Identification, life histories, preferred habitats, conservation concerns, and appropriate means of capture and field study for all reptiles and amphibians of Vermont. Pre/co-requisites: BIOL 001, BIOL 002 or equivalent, and NR 103.

WFB 150. Wildlf Habitat & Pop Measrmnt. 1 Credit.
Field methods for measuring habitat variables and estimating population parameters. One week in summer. Prerequisites: WFB 131, FOR 021 or PBIO 109, NR 140.

WFB 161. Fisheries Biology & Techniques. 0 or 4 Credits.
Introduction to freshwater fish, habitats, and life histories. Overview of fishery techniques, including sampling and assessment methods, stocking, harvest regulations, population and habitat evaluation. Prerequisites: BIOL 001 and BIOL 002 or equivalent.

WFB 174. Prin of Wildlife Management. 3 Credits.
Application of ecology and sociology to the management of wildlife populations and habitat; integration of wildlife management with demands for other resources; consideration of game species, endangered species, and biological diversity. Prerequisites: NR 103 or BCOR 102.

WFB 175. Wildlife and Society. 3 Credits.
Investigates how people’s attitudes, institutions, policies, and behaviors have affected wildlife across the North American landscape. Alternate years.

WFB 176. Florida Ecology Field Trip. 2 Credits.
Major ecosystems and associated wildlife, ranging from north Florida flatwoods to south Florida Everglades. Field trip over spring recess. Prerequisite: WFB 130, WFB 174; Instructor permission. Alternate years.

WFB 177. Texas Wildlife Field Trip. 2 Credits.
Major ecosystems and associated wildlife of south Texas, including Gulf coast, coastal prairies, lower Rio Grande Valley, and Chihuahuan desert. Field trip over spring recess. Prerequisite: WFB 130; Instructor permission. Alternate years.

WFB 185. Special Topics. 1-6 Credits.

WFB 187. Undergrad Special Projects. 1-5 Credits.
Individual projects supervised by a faculty member. Projects may involve independent field, laboratory, or library investigations. Formal report required. Prerequisite: Junior standing; submission of a project prospectus for permission.

WFB 191. Wildlife & Fisheries Practicum. 1-6 Credits.
Supervised work experience in the wildlife and fisheries area. Prerequisite: Instructor permission. Credit as arranged.

WFB 224. Conservation Biology. 0 or 4 Credits.
Conservation of biological diversity at genetic, species, ecosystem, and landscape levels. Emphasis on genetic diversity, population viability, endangered species, critical habitats, international implications. Discussion section covers basic genetic principles, population genetics, and population modeling. Pre/co-requisites: BIOL 001 and BIOL 002, or PBIO 004; a 100-level ecology course.

WFB 232. Ichthyology. 3 Credits.
Biology of fishes. Focus is on form and function, morphology, physiology, behavior, life history, and ecology of modern fishes. Prerequisites: BIOL 001, BIOL 002 or equivalent; Junior standing. Alternate years.

WFB 261. Fisheries Management. 3 Credits.
Principles of fisheries management, including population assessment, analytical methods, harvest allocation models, human dimensions, policy and emerging issues. Prerequisites: BIOL 001, BIOL 002, WFB 161.

WFB 271. Wetlands Wildlife. 2 Credits.
Breeding biology, behavior, habitat management, and population ecology of wetland wildlife with emphasis on waterfowl. Prerequisites: WFB 174, NR 103.

WFB 272. Wetlands Wildlife Laboratory. 1 Credit.
Laboratory and field assessment of the ecology and management of wetland habitats and their associated wildlife populations. Prerequisite: Previous or concurrent enrollment in WFB 271 or NR 260.
WFB 273. Terrestrial Wildlife. 3 Credits.
Integration of ecological principles, wildlife biology, land use, and human dimensions in wildlife. Emphasis on development and maintenance of terrestrial wildlife habitat, and population regulation of terrestrial species. Prerequisite: WFB 174.

WFB 274. Terrestrial Wildlife Lab. 1 Credit.
Laboratory and field experience related to terrestrial species and management of their habitat. Field project required. Prerequisite: Previous or concurrent enrollment in WFB 273.

WFB 275. Wildlife Behavior. 3 Credits.
Behavior and social organization of game and nongame species as they pertain to population management. Prerequisites: One year of Biology; an ecology course; WFB 074 or WFB 174 recommended.

WFB 279. Marine Ecology. 3 Credits.
Structure and function of major marine communities, including open ocean, benthos, coral reefs, and estuaries. Emphasis on unique ecological insights gained in the marine environment. Prerequisites: BIOL 001 and BIOL 002, an ecology course, or Instructor permission.

WFB 283. Terrestrial Wildlife. 4 Credits.
Wildlife ecology with an emphasis on management and conservation of species, populations, and ecosystems. Prerequisite: WFB 174.

WFB 285. Advanced Special Topics. 1-6 Credits.
WFB 287. Advanced Special Projects. 1-6 Credits.
Advanced readings and discussions or special field and/or laboratory investigations dealing with a topic beyond the scope of existing formal courses. Prerequisite: Senior standing or Instructor permission. Credit arranged.

WFB 299. Wildlife & Fisheries Honors. 1-6 Credits.
Honors project dealing with wildlife or fisheries biology. Prerequisite: By application only: see Program Chair.