WILDLIFE AND FISHERIES SCIENCE (WFS)

WFS 500: Professionalism in Natural Resources
3 Credits
Scholarly discussion and critique of skills important to professionalism of students in natural resources, wood products, and related science-based disciplines. WFS 500 Professionalism in Natural Resources (3) The course will give an in-depth coverage of issues and skills pertinent to the professionalism of graduate students in natural resources, wood products, or related science-based disciplines. Particular focus will be given to a discussion, critique, and development of communication skills (oral and written). In addition, a spectrum of pertinent topics and issues relevant to graduate students will be discussed in depth, ranging from the philosophy and land-grant institutions and to those important to the academic success of graduate students and their success in future careers. This course will be offered in fall semester each year.

Prerequisite: graduate student standing or permission of program

WFS 510: Design of Ecological Field Studies
2 Credits
Application of the scientific method and general principles of designing ecological field studies through discussion and critique of the primary literature.

WFS 542: Systematics
3 Credits
Principles and methods of classification, phylogeny, and speciation; taxonomic techniques; analysis of species; causal interpretation of animal diversity.

WFS 552: Systematics and Evolution of Fishes
3 Credits
Detailed study of the systematics, evolution, identification, and natural history of fishes.

Prerequisite: BIOL 421, WFS 452

WFS 560: Population Estimation and Modeling
4 Credits
Application of statistical models to estimating population parameters to test ecological theories. WFS 560 Population Estimation and Modeling (4) The purpose of this course is to impart a working knowledge of statistical methods for estimating fish and wildlife populations. Primary emphasis will be on methods of estimating population size, survival rates, and birth rates as they relate to testing hypotheses about population dynamics. Most of the course will focus on mark-recapture models for both open and closed populations, but other methods such as distance sampling and removal models that do not require marked animals will be studied.

Prerequisite: STAT 500, STAT 501 or STAT 502
WFS 610: Thesis Research Off Campus
1-15 Credits/Maximum of 999
No description.

WFS 611: Ph.D. Dissertation Part-Time
0 Credits/Maximum of 999
No Description.