WILDLIFE AND FISHERIES BIOLOGY


W F B 101 Introduction to Wildlife and Fisheries Biology 1(1,0) Informative sketch of aquaculture, fisheries science, and wildlife management. Introduces principles, resources, professional organizations, and careers in these fields. Offered fall semester only. Preq: Wildlife and Fisheries Biology major or consent of instructor.

W F B 102 Methods of Wildlife and Fisheries Biology 1(0,2) Introduction to methodology used in aquaculture, fisheries science, and wildlife management. Students are introduced to terminology, techniques, laws, and legislations. Skills with dimensions, units, computations, and technical communications as applied to aquaculture, fisheries, and wildlife. Preq: Wildlife and Fisheries Biology major. Coreq: W F B 101.

W F B 300 Wildlife Biology 3(3,0) Natural history, biology, and conservation of wildlife managed by natural resource agencies. A Mention is given to those factors important in the management and conservation including species distributions, abundance, habitat requirements, and life-history characteristics. Principles and problems associated with conservation of selected wildlife species are covered. Preq: Two semesters of introductory biology.

W F B 301 Wildlife Biology Laboratory 1(0,3) Identification of wildlife species with emphasis on game and non-game wildlife species managed or protected by state and federal agencies. One or more required weekend field trips will be scheduled. Preq: Wildlife and Fisheries Biology major. Coreq: W F B 300.

W F B 306 Introduction to Wildlife Conservation 2(2,0) Examines the fundamental thinking upon which modern conservation programs have been built.

W F B 307 Hunting and Wildlife Management 1(1,0) Hunting techniques used to harvest renewable wildlife resources are examined with respect to their roles in sound management practices. The effects of selected hunting regulations on wild populations, safety, and ethics are discussed. Preq: Junior standing or consent of instructor.

W F B (BIO SC) 313 Conservation Biology 3(3,0) Study of the biological bases for the conservation of flora, fauna, and habitats. Biological factors that influence the decision-making process are also addressed. Preq: One year of general biology or consent of instructor.

W F B 350 Principles of Fish and Wildlife Biology 3(3,0) Introduction to principles of fisheries and wildlife biology on which sound management practices are based. Interrelationships of vertebrate and invertebrate biology, habitat, and population dynamics are covered. Preq: One year of general biology.

W F B 410, 610 Wildlife Management Techniques 3(1,6) Covers field and laboratory methods commonly used in wildlife management and research. Students interact with wildlife professionals. Topics include research methodology, estimating wildlife population characteristics, condition measures, and food habits; species determination, sex, and age; capture; population monitoring methods; GIS and mapping techniques; habitat evaluation and improvement. Preq: Junior standing, one year of general biology.

W F B 412, 612 Wildlife Management 3(2,3) Basic principles and general practices of wildlife management and conservation are covered. Major problems concerning the management of wildlife resources, with emphasis on upland game species. Laboratory work includes practical work on the Clemson University woodlands and field trips to several areas where wildlife management is being practiced.

W F B 414, 614 Wildlife Nutritional Ecology 3(3,0) Concepts of how terrestrial wildlife obtains and utilizes energy and nutrients in wild ecosystems are taught. Energy and nutrient availability are discussed in the ecological context of distribution, flow, and cycling in natural and modified foraging areas. Physiology of digestion is discussed for major homeotherms. Preq: FOR 415 or W F B 412.

W F B 416, 616 Fishery Biology 3(2,3) Principles underlying freshwater fish production. Introduction to major groups of freshwater fishes and their habitats. Topics include identification, age and growth, fecundity, food habits, population estimation, environmental evaluation, management practices, and fish culture. Preq: One year of introductory biology. Junior standing.

W F B 418 Fishery Conservation 3(3,0) Survey of conservation efforts directed toward freshwater and marine fisheries resources. Topics include threatened, endangered, over-exploited species and introductions of exotic species. Preq: Two semesters of introductory biology.

W F B 430, 630 Wildlife Conservation Policy 3(3,0) Deals with the ecological rationale and management implications of public policy designed for the conservation of American wildlife resources. Emphasis is on managed-land issues. Preq: W F B 350 or consent of the instructor.

W F B 440 Non-game Wildlife Management 3(3,0) Basic principles and general practices of non-game wildlife management are covered. Emphasis is placed on those principles and practices most appropriately used by state agencies in their management programs for non-game species, along with real-world problems associated with implementation of such programs. Preq: Two semesters of introductory biology.

W F B 444, 644 Wildlife Damage Management 3(2,3) Covers the philosophical, sociological, ecological, and economical basis for controlling damage caused by animals problem wildlife populations. Emphasis is placed on fundamentals of prevention and control of damage caused by vertebrate species, especially mammals and birds. Includes interaction with federal and state agencies and private consultants. Preq: One year introductory biology.

W F B 450, 650 Aquaculture 3(3,0) Basic aquacultural techniques applied to freshwater and marine organisms; past and present culture of finfishes and shellfishes around the world; principles underlying fish production; water quality, feeding, and nutrition as they influence production of cultured aquatic organisms. Preq: One year of general biology, junior standing.

W F B 460, 660 Warmwater Fish Diseases 2(2,0) Study of diseases in warmwater fish including infectious and noninfectious processes. Preq: One year of general biology, junior standing, consent of instructor.

W F B 462, 662 Wetland Wildlife Biology 3(3,0) Study of wetland wildlife habitats, emphasizing classification by physical, chemical, and biological characteristics; importance of wetland habitat for management and production of wetland wildlife species. Offered fall semester only. Preq: BIOL 103/104 or 110/111.

W F B 463 Directed Research in Aquaculture, Fisheries, and Wildlife Biology 1(0,3) Research problems in selected areas of aquatic culture, fisheries, or wildlife science to introduce students to experimental design, research techniques, and presentation of research results. May be repeated for a maximum of three credits. Preq: Junior standing, consent of instructor.

W F B (BIO SC, ENT) 469, 669 Aquatic Insects 3(1,6) See ENT 469.

W F B 490 Field Training in Aquaculture, Fisheries, and Wildlife Biology 3(0,9) Four to five-week program in which students observe aquaculture, fisheries, or wildlife management. Students have supervised management responsibility. Total of 135 hours required. Must be arranged at least two months in advance. To be taken Pass/Fail only. Preq: Senior standing in Wildlife and Fisheries Biology or consent of instructor.

W F B 493 Selected Topics 1-4(0-4,0-12) Specialized topics which explore current areas of research and management in aquaculture, fisheries science, or wildlife management are examined in lecture/seminar format. May be repeated for a maximum of ten credits, but only if different topics are covered. Preq: Junior standing, consent of instructor.

W F B 498 Senior Portfolio 1(1,0) Collection of Web-based materials representing the creative and scientific papers, presentations, and resumes written by students to satisfy curriculum requirements. Students are regularly informed regarding the format and content of their portfolios. Preq: Senior standing in Wildlife and Fisheries Biology. Coreq: F N R 499.

WOMEN'S STUDIES

Professor: J. M. M. elton; A associate Professor: E. K. Sparks; A sistant Professor: M. Shockley; Lecturer: S. Watts.

W S 301 Introduction to Women's Studies: Women's Lives 3(3,0) Interdisciplinary course exploring the unique features of women's lives from childhood to old age. Content is based on new research in many disciplines, including psychology, sociology, history, literature, and the arts. Preq: Sophomore standing.
W S 459, 659 Selected Topics in Women's Studies 1-3(1-3,0) Topics change from semester to semester and are announced prior to registration. May be repeated for a maximum of six credits, but only if different topics are covered.

W S 498 Advanced Studies in Women's Studies 3(3,0) Focuses on the theoretical foundations for women's studies, with particular emphasis on how women's studies research and theory influence institutions and governmental policies. Readings include essays on such central women's studies issues as work, family, children, health care, legislation, and government policies. Preq: W S 301 or consent of instructor.