Courses

FW 104 Wildlife Ecology and Conservation (GT-SC2) Credits: 3 (3-0-0)
Course Description: Essentials of wildlife ecology as a foundation for understanding issues on the origins, management and conservation of biodiversity.
Prerequisite: None.
Registration Information: Sections may be offered: Online.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.
Additional Information: Biological & Physical Sciences 3A, Natural & Physical Sciences w/o lab (GT-SC2).

FW 111 Basic Outdoor Skills in FWCB Credit: 1 (.5-1-0)
Course Description: Basic outdoor skills for FWCB and outdoor novices. History of wildlife conservation and reasons for declining outdoor participation.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. May be taken up to 3 times for a maximum of 3 credits. Required field trips.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 204 Introduction of Fishery Biology Credits: 3 (2-3-0)
Course Description: Exposure to sampling techniques, agencies, and topics in fishery biology careers.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory. Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 260 Principles of Wildlife Management Credits: 3 (3-0-0)
Course Description: Ecology principles applied to conservation and management of fish/wildlife resources. Quantitative methods, socioeconomic factors, population dynamics.
Prerequisites: (MATH 124 or MATH 160) and (BZ 110 or LIFE 103).
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 300 Ichthyology Credits: 2 (2-0-0)
Course Description: Biology of fishes: anatomy, taxonomy, physiology, behavior, ecology, evolution, and zoogeography.
Prerequisite: BZ 111 or LIFE 103.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 301 Ichthyology Laboratory Credit: 1 (0-2-0)
Course Description: Anatomy, taxonomy, evolution and ecology of North American freshwater fishes. Required field trips.
Prerequisite: FW 300, may be taken concurrently.
Registration Information: Must register for lecture and laboratory.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 350 Teaching Shooting Responsibility Credits: 4 (3-2-0)
Course Description: Education and instructor certification course to develop knowledge, skills, behavior for teaching about firearms, shooting sports, and associated ethics.
Prerequisite: None.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 355 Hunter Education for Instructors. Credits: 2 (0-0-2)
Course Description: Principles of learning and teaching for instructors of state hunter education courses.
Prerequisite: None.
Registration Information: Offered as a correspondence course only.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 356 Leopold's Ethic for Wildlife and Land Credits: 3 (0-0-3)
Course Description: Philosophy, art, history, and science of wildlife and land management from writings of Aldo Leopold.
Prerequisite: None.
Registration Information: Offered as a correspondence course only.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 357 Wildlife Habitat on the Great Plains Credits: 3 (0-0-3)
Course Description: Management of cover, food, and water for wildlife and fish in the Great Plains. Emphasis on practices compatible with other uses of private land.
Prerequisite: None.
Registration Information: Offered as a correspondence course only.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 370 Design of Fish and Wildlife Projects Credits: 3 (2-2-0)
Course Description: Design, analysis, and evaluation of wildlife projects; lab exercises in design and data analysis; preparation and presentation of project proposals.
Prerequisites: (LIFE 320 or LAND 220 or LIFE 220) and (FW 260 or FW 360) and (NR 220) and (MATH 155 or MATH 160) and (STAT 301 or STAT 307).
Registration Information: Must register for lecture and laboratory. Required field trips.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.
FW 375  Field Wildlife Studies  Credits: 3 (1-4-0)
Course Description: Field trips to see wildlife management and
habitats and to discuss problems and practices with professional
ecologists and resources managers.
Prerequisites: (LIFE 320 or LAND 220 or LIFE 220) and (FW 260).
Registration Information: Must register for lecture and laboratory.
Required field trips.
Term Offered: Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 382  Travel Abroad—Wildlife Conservation  Credits: 3 (0-0-3)
Course Description: Study tour of various overseas ecosystems
and natural resources conservation programs; discussions with local
ecologists/managers.
Prerequisite: None.
Registration Information: Written consent of instructor.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 384  Supervised College Teaching  Credits: Var[1-5]
Course Description: Instruction and practice in laboratory instruction
in lower-division departmental courses.
Prerequisite: None.
Registration Information: Written consent of instructor. A maximum
of 10 combined credits for all 384 and 484 courses are counted
towards graduation requirements.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 400  Conservation of Fish in Aquatic Ecosystems  Credits: 3 (2-0-1)
Course Description: Ecological processes that create habitat and
biotic template for fish in aquatic ecosystems; human effects;
strategies for conserving fishes.
Prerequisites: LIFE 320 and FW 300.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 405  Fish Physiology  Credits: 3 (2-3-0)
Course Description: Physiological ecology of fish; functional
adaptations and adjustments used to cope with environmental and
physiological states.
Prerequisite: BZ 214 or FW 300.
Registration Information: Must register for lecture and laboratory.
Credit not allowed for both FW 405 and FW 605.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 455  Principles of Conservation Biology  Credits: 3 (3-0-0)
Course Description: Review of efforts to study and conserve
biological diversity, focused on fish and wildlife populations.
Prerequisites: (FW 260 and LIFE 320) and (STAT 301 or STAT 307).
Registration Information: Credit not allowed for both FW 455 and
FW 555.
Term Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 465  Managing Human-Wildlife Conflicts  Credits: 3 (2-2-0)
Course Description: Methods for resolving conflicts caused by
wildlife; integrating animal behavior, population dynamics, economics,
and human dimensions into solutions.
Prerequisite: FW 260.
Registration Information: Must register for lecture and laboratory.
Required field trips.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 467  Wildlife Disease Ecology  Credits: 3 (2-0-1)
Course Description: Ecological, epidemiological, and evolutionary
principles of disease in fish and wildlife populations; contemporary
issues in disease ecology.
Prerequisite: LIFE 320.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 468  Wild Bird Management  Credits: 3 (2-3-0)
Course Description: Ecology and management of game, pest, and
rare bird populations and nongame bird communities.
Prerequisite: FW 260.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 469  Conservation and Management of Large Mammals  Credits: 3 (3-0-0)
Course Description: Principles of behavior, ecology, population
dynamics, and conservation related to large mammals.
Prerequisites: (BZ 330 and FW 260 and LIFE 320) and (STAT 301 or
STAT 307).
Registration Information: Required field trips.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.
FW 471 Wildlife Data Collection and Analysis  Credits: 4 (2-4-0)
Course Description: Analysis methods used in wildlife management and research; adaptive resource management with emphasis on learning through field and computer labs.
Prerequisites: FW 370 and NR 220.
Registration Information: Must register for lecture and laboratory. Required field trips.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 472 Issues in Animal Conservation and Management  Credits: 3 (2-0-1)
Course Description: Current and emerging issues in fish and wildlife conservation and management at the state, national, and global scales.
Prerequisites: (FW 260) and (LIFE 320).
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

FW 475 Conservation Decision Making  Credits: 3 (3-0-0)
Course Description: Structured approaches to conservation and management of vertebrates; articulating objectives, developing management options, and predicting outcomes.
Prerequisites: (MATH 155 or MATH 160) and (STAT 301).
Registration Information: Junior or senior standing.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 477 Wildlife Habitat Use and Management  Credits: 3 (1-3-1)
Course Description: Wildlife habitat evaluation, classification, and improvement; analysis of habitat use patterns; planning and implementation of management plans.
Prerequisites: (FW 260) and (NR 319 or NR 322).
Registration Information: Credit not allowed for both FW 477 and FW 677. Required field trips.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 482 Travel Abroad: Conserving Desert/Marine Animals  Credits: 3 (0-0-3)
Course Description: Ecology of desert and marine animals and application to problems of animal conservation.
Prerequisite: LIFE 320.
Registration Information: Written consent of instructor.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 487 Internship  Credits: Var[1-6]
Course Description: Field experience in fish and wildlife management.
Prerequisite: None.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 492 Seminar-Wildlife Biology  Credit: 1 (0-0-1)
Course Description:
Prerequisite: None.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 495A Independent Study: Fishery Biology  Credits: Var[1-18]
Course Description:
Prerequisite: LIFE 320 or FW 104 or NR 220 or LAND 220 or LIFE 220.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 495B Independent Study: Wildlife Biology  Credits: Var[1-18]
Course Description:
Prerequisite: LAND 220 or LIFE 320 or FW 104 or NR 220 or LIFE 220.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 540 Fisheries Ecology  Credits: 3 (2-0-1)
Course Description: Population, community, and ecosystem management for fishes and other aquatic organisms in freshwater habitats.
Prerequisite: None.
Registration Information: One course in fishery science; one course in aquatic ecology. Must register for lecture and recitation.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 544 Ecotoxicology  Credits: 3 (2-0-1)
Course Description: Ecological effects of contaminants on populations, communities, and ecosystems.
Prerequisites: (LIFE 320 or LAND 220 or LIFE 220) and (STAT 301 or STAT 307).
Registration Information: Must register for lecture and recitation.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.
FW 551  Design of Fish and Wildlife Studies  Credits: 3 (2-0-1)
Course Description: Principles, types of studies, and philosophy of science in design of experimental, observational, and sampling studies for wildlife investigations.
Prerequisite: STAT 301 or STAT 307 or ERHS 307.
Registration Information: Must register for lecture and recitation.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

FW 552  Applied Sampling for Wildlife/Fish Studies Credits: 3 (3-0-0)
Course Description: Survey sampling theory and techniques, including distance sampling, with emphasis on wildlife and fish studies.
Prerequisite: STAT 301 or STAT 307.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 553  Adaptive Fish and Wildlife Management Credits: 3 (2-2-0)
Course Description: Formal approaches to making management decisions about wildlife and fish populations, using tools of decision analysis.
Prerequisite: FW 401 or FW 471.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 555  Conservation Biology Credits: 3 (3-0-0)
Course Description: Ecological factors in conservation of biological diversity.
Prerequisites: LIFE 320 or LAND 220 or LIFE 220 and (STAT 307).
Registration Information: Credit not allowed for FW 555 and FW 455.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 561A Advanced Topics: Fishery Biology Credits: Var[1-3]
Course Description: None.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 561B Advanced Topics: Wildlife Biology Credits: Var[1-3]
Course Description: None.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 561C Advanced Topics: Population Analysis Credits: Var[1-3]
Course Description: None.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 561E Advanced Topics: Vertebrate Management Credits: Var[1-3]
Course Description: None.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

FW 567  Wildlife Disease Ecology Credits: 3 (2-0-1)
Course Description: Ecological, epidemiological, and evolutionary principles of disease in fish and wildlife populations; contemporary issues in disease ecology.
Prerequisites: STAT 307 and (LIFE 320 or STAT 301 or STAT 307).
Registration Information: Graduate standing. Sections may be offered: Online.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 573  Travel Abroad-Wildlife Ecology/Conservation Credits: 3 (3-0-0)
Course Description: Study tour of various overseas ecosystems and natural resources conservation programs; discussions with local ecologists/managers.
Prerequisite: None.
Registration Information: Written consent of instructor.
Term Offered: Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 575  Wildlife Habitat Evaluation for Educators Credits: 3 (0-0-3)
Course Description: Study tour of various ecosystems and natural resources conservation programs; discussions with local ecologists/managers.
Prerequisite: None.
Registration Information: Graduate standing. Offered as a correspondence course only.
Term Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 576  Wildlife Policy, Administration, and Law Credits: 3 (0-0-3)
Course Description: Evolution of policy affecting wildlife and humans using historical, current, philosophical, legal, and administrative constructs.
Prerequisite: None.
Registration Information: Required: one course in political science; one course in natural resources management. Offered as a correspondence course only.
Term Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

FW 605  Advanced Physiological Ecology of Fishes Credits: 4 (2-3-1)
Course Description: Physiological ecology of fishes; functional adaptations and adjustments used to cope with environmental and physiological states.
Prerequisite: FW 300.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture, laboratory, and recitation. Credit not allowed for both FW 605 and FW 405.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: Yes.
FW 662 Wildlife Population Dynamics Credits: 3 (1-2-1)
Course Description: Population models; experimental evidence and analysis of theories of population regulation; case studies.
Prerequisites: (FW 260 and STAT 301) and (MATH 155 or MATH 160).
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture, laboratory and recitation.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 663 Sampling and Analysis of Vertebrate Populations Credits: 5 (3-3-1)
Course Description: Sampling and analysis of fish and wildlife populations, including survival estimation, capture-recapture sampling, and transect sampling.
Prerequisites: FW 260 and STAT 301.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture, laboratory and recitation.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 673 Hierarchical Modeling in Ecology Credits: 3 (3-0-0)
Also Offered As: STAT 673.
Course Description: Hierarchical ecological modeling using common forms of data in fish and wildlife studies and emphasizing spatial and temporal aspects of analysis.
Prerequisite: ESS 575 or STAT 420.
Restriction: Must be a: Graduate, Professional.
Registration Information: Credit not allowed for both FW 673 and STAT 673.
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

FW 677 Wildlife Habitat Management Credits: 3 (1-3-1)
Course Description: Habitat models; vegetation manipulation and monitoring for wildlife; extended field trips.
Prerequisite: FW 260.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture, laboratory and recitation. Credit not allowed for both FW 677 and FW 477. Required field trips.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

FW 684 Supervised College Teaching Credits: Var[1-5]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Written consent of instructor.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 692A Seminar: Fishery Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 692B Seminar: Wildlife Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 695A Independent Study: Fishery Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 695B Independent Study: Wildlife Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 699A Thesis: Fishery Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 798A Research-Fishery Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 798B Research-Wildlife Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 799A Dissertation-Fishery Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

FW 799B Dissertation-Wildlife Biology Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.