WILDLIFE

Bachelor of Science degree with a major in Wildlife — concentrations in Wildlife Management & Conservation, Conservation Biology/ Applied Vertebrate Ecology

Minor in Wildlife *(suspended)*

See Natural Resources for information on the Master of Science degree with an option in Wildlife.

Department Chair
Micaela Gunther, Ph.D.

Department of Wildlife
Wildlife & Fisheries Building 220
707-826-3953
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The Program

Students completing this program will have demonstrated:

- knowledge of theories, concepts, and identification procedures in wildlife biology
- use of appropriate evaluative techniques to develop knowledge and to examine questions when conducting wildlife/habitat investigations
- adept presentation of concepts and research findings
- appreciation of sociopolitical factors that affect wildlife conservation and management processes.

Humboldt's wildlife students have the advantage of living close to the ocean, wetlands, and many wildlife sanctuaries. Nearly five million acres of national forest, parks, and public wilderness lands offer hands-on study of wildlife, ecology, and management. Students frequently take field trips to surrounding wildlife areas and focus on laboratory study.

Humboldt's graduates do well as: wildlife biologists, soil scientists, wildlife managers, wildlife refuge managers, park rangers, naturalists, preserve managers, fish and game wardens, conservation officers, fisheries technicians, forestry technicians, range conservationists, agricultural inspectors, and environmental planners.

Preparation

In high school take mathematics, chemistry, biology, and any environmental studies that may be available. Students are expected to be proficient in computer applications.

REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 61-77, and "The Master's Degree" section of the catalog, pp. 78-80.

Wildlife Management & Conservation Concentration

Lower Division

Life Sciences

BIOL 105 (4) Principles of Biology
BOT 105 (4) General Botany
ZOOL 110 (4) Introductory Zoology

Physical Sciences

CHEM 107 (4) Fundamentals of Chemistry

One of the following:
CHEM 110 (5) General Chemistry II
CHEM 328 (4) Brief Organic Chemistry
GSP 270 (3) Geographic Information Science (GIS) [Prereq: GSP 101/GSP 101L]
PHYX 106 (4) College Physics: Mechanics & Heat
SOIL 260 (3) Intro to Soil Science

Mathematics

MATH 115 (4) Algebra & Elementary Functions
STAT 109 (4) Introductory Biostatistics

Conservation, Policy & Administration

WLDF 210 (3) Introduction to Wildlife Conservation and Administration
WLDF 244 (1) Wildlife Policy & Animal Welfare

Upper Division

BOT 330 (2) Plant Ecology (lecture only)
BOT 350 (4) Plant Taxonomy
WLDF 301 (3) Principles of Wildlife Mgmt.

WLDF 302/PHIL 302 (3) Environmental Ethics, **or**
WLDF 309 (3) Case Studies in Environmental Ethics, **or**
EMP 425 (3) Environmental Impact Assessment

WLDF 311 (4) Wildlife Techniques
WLDF 365 (3) Ornithology I
ZOOL 356 (3) Mammalogy
ZOOL 354 (4) Herpetology, **or**
FISH 310 (4) Ichthyology, **or**
ZOOL 314 (5) Invertebrate Zoology, **or**
ZOOL 358 (4) General Entomology

Life Forms & Applied Science/Management

Two of the following courses:

WLDF 420 (3) Wildlife Management (Waterfowl)
WLDF 421 (3) Wildlife Management (Upland Game)
WLDF 422 (3) Wildlife Management (Mammals)
WLDF 423 (3) Wildlife Management (Nongame)

Habitat Ecology/Management

One of the following courses:

WLDF 430 (3) Ecology & Management of Wetland Habitats
WLDF 431 (3) Ecology & Management of Upland Habitats

Advanced Classes

Two of the following courses:

WLDF 450 (3) Principles of Wildlife Diseases
WLDF 460 (3) Conservation Biology
WLDF 468 (3) Spatial Wildlife Ecology
WLDF 470 (3) Animal Energetics
WLDF 475 (3) Wildlife Ethology
WLDF 478 (3) Ecology of Wildlife Populations

Capstone Classes

WLDF 485 (1) Senior Seminar

WLDF 490 (3) Honors Thesis, **or**
WLDF 492S (3) Senior Project, Service, **or**
WLDF 495 (3) Senior Project

Conservation Biology/Applied Vertebrate Ecology Concentration

Lower Division

Life Sciences

BIOL 105 (4) Principles of Biology
BOT 105 (4) General Botany
ZOOL 110 (4) Introductory Zoology

Physical Sciences

CHEM 107 (4) Fundamentals of Chemistry
CHEM 128 (3) Introduction to Organic Chemistry

Mathematics

MATH 105 (3) Calculus for the Biological Sciences & NR
STAT 109 (4) Introductory Biostatistics

Conservation, Policy & Administration

WLDF 210 (3) Intro to Wildlife Conservation and Administration
WLDF 244 (1) Wildlife Policy and Animal Welfare

Upper Division

BOT 330 (3) Plant Ecology (Lecture/Lab)

BIOL 340 (4) Genetics, **or**
FISH 474 (4) Conservation Genetics of Fish and Wildlife

BOT 350 (4) Plant Taxonomy
WLDF 301 (3) Principles of Wildlife Management
WLDF 311 (4) Wildlife Techniques
WLDF 365 (3) Ornithology I
WLDF 460 (3) Conservation Biology
ZOOL 356 (3) Mammalogy

Life Forms & Applied Science/Mgmt.

One of the following courses:

WLDF 420 (3) Wildlife Management (Waterfowl)
WLDF 421 (3) Wildlife Management (Upland Game)
WLDF 422 (3) Wildlife Management (Mammals)
WLDF 423 (3) Wildlife Management (Nongame)

Habitat Ecology/Management

One of the following courses:

WLDF 430 (3) Ecology & Management of Wetlands Habitats for Wildlife
WLDF 431 (3) Ecology & Management of Upland Habitats for Wildlife

Advanced Classes

Two of the following courses:

WLDF 450 (3) Principles of Wildlife Diseases
WLDF 468 (3) Spatial Wildlife Ecology
WLDF 470 (3) Animal Energetics
WLDF 475 (3) Wildlife Ethology
WLDF 478 (3) Ecology of Wildlife Populations

Capstone Classes

WLDF 485 (1) Senior Seminar

WLDF 490 (3) Honors Thesis, **or**
WLDF 492S (3) Senior Project, Service, **or**
WLDF 495 (3) Senior Project

Elective Course

One of the following courses:

GSP 270 (3) Geographic Information Science (GIS) [Prereq: GSP 101/GSP 101L]
FISH 310 (4) Ichthyology
STAT 333 (4) Linear Regression Models/ANOVA
STAT 406 (4) Sampling Design & Analysis
STAT 409 (4) Experimental Design & Analysis
STAT 504 (4) Multivariate Statistics
ZOOL 310 (4) Animal Physiology
ZOOL 314 (5) Invertebrate Zoology
ZOOL 354 (4) Herpetology
ZOOL 358 (4) General Entomology