Wildlife

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

See Natural Resources for information on the Master of Science degree with a concentration in Wildlife.

Department Chair
Richard Brown, DMV, Ph.D.

Department of Wildlife
Wildlife & Fisheries Building 220
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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. 67-82., and “The Master’s Degree” pp. 83-84.

Wildlife Management & Conservation Concentration

Lower Division
Life Sciences
BIOL 105 [4] Principles of Biology
ZOOL 110 [4] Introductory Zoology

Physical Sciences
One of the following:
CHEM 110 [5] General Chemistry II
CHEM 128 [3] Introduction to Organic Chemistry

SOIL 260 [3] Intro to Soil Science

Mathematics
MATH 102 [4] Algebra & Elementary Functions or equivalent
STAT 109 [4] Introductory Biostatistics

Conservation, Policy & Administration
WLDF 210 [3] Introduction to Wildlife Conservation and Administration

Upper Division
BOT 330 [2] Plant Ecology [lecture only]
BOT 350 [4] Plant Taxonomy
PHIL 302 [3] Environmental Ethics, or
WLDF 309 [3] Case Studies in Environmental Ethics, or


Conservation Biology/Applied Vertebrate Ecology Concentration

Lower Division
Life Sciences
BIOL 105 [4] Principles of Biology
ZOOL 110 [4] Introductory Zoology

Physical Sciences
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 330/330L** (2/1) Plant Ecology and Plant Ecology 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 464** (3) Urban Wildlife Ecology
- **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 504** (4) Multivariate Statistics
- **ZOOL 310** (4) Animal Physiology
- **ZOOL 314** (5) Invertebrate Zoology
- **ZOOL 354** (4) Herpetology
- **ZOOL 358** (4) General Entomology

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