

INTERPRETIVE BIOLOGY AND NATURAL HISTORY

Interpretive Biology and Natural History

Major

See related programs:

- BIOLOGY
 - PRE-HEALTH OPTION
 - BIOTECHNOLOGY
 - ENVIRONMENTAL SCIENCE
- ENVIRONMENTAL ANALYSIS & PLANNING
- ETHNOBOTANY
- FORESTRY
- WILDLIFE & FISHERIES

Contact:

Sunshine Brosi, Assistant Professor,
Department of Biology

Professors:

Raesly (Chair), Seddon, Serfass

Associate Professors:

Ammer, Fritz, Li, Pegg

Assistant Professors:

Brosi, Fiscus, Keller, Lambert,
Puthoff, Robertson-Thompson

- Students majoring in Interpretive Biology and Natural History will learn the skills to teach the general public about the great outdoors. A variety of biological disciplines will be explored including zoology and botany.
- Students are required to participate in a capstone internship working with a federal, state or private agency or industry related to individual interest.
- Students interested in professional and graduate degrees may need to take additional courses.
- Minors are available in biology, forestry, ethnobotany, geography, and sustainability studies.

| | MAJOR |
|--------------------------------------|-----------|
| Hours Required in Biology: | 35 |
| Hours Required in Other Departments: | 26 |
| Total Hours | 61 |

Summary of Requirements for Major in Interpretive Biology and Natural History

Major

1. Introductory Level Courses: (25 hours)

BIOL 149 General Biology I (*GEP Group C*)
 BIOL 150 General Biology II
 CHEM 201 General Chemistry (*GEP Group C*)
 CMST 102/112 Introduction to Communication
 GEOG 103/113 Physical Geography
 MATH 102 College Algebra
 or MATH 120 Pre-Calculus Mathematics (*Core Skill 3*)
 or any math course above 219
 MATH 209/219 Elements of Applied Probability and Statistics (*Core Skill 3*)

2. Advanced Level Courses (17 hours)

ENGL 339 Scientific Writing
 or ENGL 338 Technical Writing (*Core Skill 2*)
 BIOL 334 General Animal Behavior
 BIOL 340 General Ecology
 BIOL 426 Vertebrate Zoology
 BIOL 494 Field Experiences in the Biological Sciences (*Capstone, minimum 3 credits*)

3. Electives: (19 hours)

Take one of the following:

BIOL 406 Ornithology
 BIOL 417 Ichthyology
 BIOL 422 Herpetology
 BIOL 423 Mammalogy

Take one of the following:

BIOL 309 General Entomology
 BIOL 411 Invertebrate Zoology

Take one of the following:

BIOL 305 Dendrology
 BIOL 314 Plant Taxonomy

Take one additional course from above electives or one of the following:

BIOL 200 Scientific Investigation and Communication
 BIOL 230 Wildlife Techniques
 BIOL 311 Morphology of Fungi and Non-vascular Plants
 BIOL 312 Morphology of Vascular Plants
 BIOL 402 Evolution
 BIOL 420 Fish Management and Culture
 BIOL 425 Forest Ecology and Conservation
 BIOL 450 Ecology and Management of Wildlife Populations

Take two of the following:

GEOG 275 Fundamentals of Geographic Data Handling (*Tech. Fluency*)
 GEOG 317 Principles of Geographic Information Science
 GEOG 340 Soil: Genesis, Nature, and Characterization
 GEOG 406 Management and Conservation of Natural Resources
 GEOG 430 Surface Water Hydrology
 GEOG 433 Surveying and Field Techniques
 GEOG 441 Soil Analysis
 GEOG 445 Biogeography
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law
 RECR 342 Park and Facility Design
 RECR 380 Recreation Leadership
 ART 235 Photography
 CMST 322 Presentational Communication