

# Wildlife Biology Concentration

## Fisheries Science Option

### Career Opportunities

Humanity is dependent upon coexistence with a multitude of wildlife species in balanced ecosystems. Trained wildlife professionals are able to apply scientific principles and techniques to modify environmental conditions to favor fish and wildlife. They must not only understand the needs of fish and wildlife, but how to provide those needs, in harmony with man's other land management activities, such as forestry, agriculture and industrial development. They must be able to resolve human and wildlife conflicts to the benefit of both and to the detriment of neither. The wildlife biology curriculum provides a broad general education with a strong background in life sciences. The fisheries science option qualifies graduates for certification as Associate Fisheries Professionals by the American Fisheries Society, the national scientific organization of the wildlife profession.

### Employment Possibilities

Agencies of various levels of government have historically been major employers of fisheries professionals. This continues to be true, but an increasing number of fisheries professionals are employed by private and corporate firms as concern about the environmental impact of industrial activities increases. Graduates of the fisheries science option are eligible for entry-level employment as conservation officers, fisheries research technicians, lake or hatchery managers, wildlife damage control technicians and environmental impact consultants. Graduates are also well prepared to pursue advanced degrees.

### Facilities

Classes and laboratory exercises are conducted in modern and comfortable facilities using modern instructional equipment. Many courses take frequent field trips to privately owned areas, state and federal wildlife refuges and management areas, and state and national parks. Upper division wildlife courses emphasize field participation with professional biologists of state and federal agencies to help students get experience and increase knowledge about practical management techniques. Numerous computer facilities are available for student use. An active UT Martin student chapter of The Wildlife Society (the national professional organization) provides a multitude of opportunities for students to gain hands-on wildlife experience. Students also have the opportunity to attend the annual meeting of the Southeastern Association of Fish and Wildlife Agencies.

**The University of Tennessee at Martin**  
**Department of Agriculture, Geosciences, and Natural Resources**  
**Bachelor of Science in Natural Resources Management**  
**WILDLIFE BIOLOGY CONCENTRATION**  
**FISHERIES SCIENCE OPTION**  
**(Major code 1155)**

Program Description: [www.utm.edu/major](http://www.utm.edu/major)

**University Wide Fine Arts & Aesthetics – 3 hrs**

**Requirement**

- Choose 1 course from ART 110; ARTH 210, 211; DANC 110; MUS 111, 112, 113; THEA 110, 111 (3 hrs)

**Wildlife Science Biological & Physical System – 16 hrs**

**Requirement**

- BIOL 130 (4 hrs)
- BIOL 140 (4 hrs)
- CHEM 111 (4 hrs)
- CHEM 112 (4 hrs)

**University Wide Communication – 9 hrs**

Students who place in ENGL 100, will use ENGL 110 instead of ENGL 111 in the ENGL sequence.

**Requirement**

- ENGL 111 (3 hrs) (Min C grade)
- ENGL 112 (3 hrs) (Min C grade)
- COMM 230 (3 hrs)

**University Wide Humanities – 9 hrs**

**Requirement**

- Choose 3 courses from ENGL 250, 251, 260, 261, 270, 271; FREN 250; GERM 250; HIST 121, 122, 201, 202; HONR 111; PHIL 110, 120, 130, 160; SPAN 250 (9 hrs)

**Natural Resources Management Mathematics – 9 hrs**

**Requirement**

- MATH 140 or 185 (3 hrs)
- MATH 160 (3 hrs)
- MATH 210 (3 hrs)

## **University Wide Social & Behavior Science– 6 hrs**

### **Requirement**

- Choose 2 courses from AGRI 295; ECON 100, 201, 202; ENGR 100; GEOG 151, 152, 202; IDST 201; NRM 101; POSC 210; PSYC 110, 120; SWRK 220; SOC 201, 202; HLTH 111; HONR 112 (6 hrs)

## **Wildlife Biology Core – 49 hrs**

### **Requirement**

- AGET 220 (3 hrs)
- ANSC 360 or BIOL 336 (3 hrs)
- BOT 303 (3 hrs)
- NRM 100 (3 hrs)
- NRM 210 (3 hrs)
- NRM 225 (3 hrs)
- NRM 430 (3 hrs)
- SOIL 210 (4 hrs)
- SOIL 315 or 430 (3 hrs)
- WBIO 240 (4 hrs)
- WBIO 250 (3 hrs)
- WBIO 330 (3 hrs)
- WBIO 450 (4 hrs)
- ZOOL 441 (3 hrs)
- ZOOL 442 (1 hr)
- Choose 3 hours from AGET 482; GEOG 310, 410; PRAD 300

## **Wildlife Biology-Fisheries Science Major – 19 hrs**

### **Requirement**

- BIOL 413 (1 hr)
- BIOL 418 (3 hrs)
- NRM 315 (3 hrs)
- WBIO 300 (3 hrs)
- WBIO 405 (3 hrs)
- Choose 9 hours from ZOOL 319, 320, 321, 322
- ZOOL 320 (3 hrs)

### **As a general rule:**

**100 & 200 level courses are lower division courses and target freshman and sophomore years;**

**300 & 400 level courses are upper division courses and target junior and senior years;**

**However, this is variable and student should work closely with faculty advisor to meet individual needs**