

## **BIOLOGY / MARINE BIOLOGY**

### **Mission Statement**

*In keeping with the University mission, the Department of Biology is dedicated to creation, transmission, application and preservation of knowledge. Within this framework, the primary mission of the Department of Biology is to develop, support and conduct high quality educational and research programs in the life sciences with emphasis on marine biology, environmental biology, biotechnology and pre-professional programs.*

### **Student Learning Outcomes**

UWF Biology/Marine Biology graduates should be able to do the following:

#### **Content**

- Identify and use the concepts, principles, and theories that constitute the core subdisciplines of the biological sciences
- Employ techniques central to analysis of biological materials
- Describe discipline-related career paths for which recipients of the BS in Biology are qualified

#### **Critical Thinking**

- Apply scientific method to solve problems in the biological sciences
- Select and conduct appropriate statistical analyses

#### **Communication**

- Employ biological terminology accurately
- Use language in written form effectively and professionally
- Communicate biological information in oral form employing appropriate technology

#### **Integrity/Values**

- Describe ethical challenges involved in conducting scientific research with humans and animals
- Adhere to appropriate ethical practices in research and teaching

## Project Management

- Design and execute a project that incorporates a reasonable time line to address a problem in the biological sciences
- Draw and defend conclusions related to the results of the study
- Collaborate effectively with others on team projects.

## Assessment of Student Learning Outcomes

As a Biology/Marine Biology major, you will be assessed in your application of core principles and knowledge, scientific methods and communication skills in the biological/marine sciences. You will be evaluated in terms of your ability to engage in ethical analyses and employ statistical analyses in projects related to your discipline. Finally, you will be assessed for your understanding and ability to apply current and emerging technologies to problems in your field of study.

## Job Prospects for Biology Graduates

### **Biology**

Bioremediation  
Biotechnology  
Medical Research  
Industry  
Government  
Education  
Microbiology  
Health Professions  
Research Laboratories  
Teaching  
Pharmaceuticals  
Public Health  
Food Production  
Pollution Control  
Environmental Diagnostics  
Forestry  
Agriculture

### **Marine Biology**

Marine Biologist  
Fisheries Management  
Aquaculture  
Pollution Biologist

Marine Toxicologist  
Environmental Permitting & Enforcement  
Education  
Environmental Law

### **Interdisciplinary Sciences**

Environmental Science  
Health Support Professions  
Forensic Science  
Pharmaceutical Science

### **Zoo Science track**

Zoo Keeper  
Zoo Curator  
Zoo Director  
Private Business

### **Bioinformation Technology**

Bioinformatics Programmer  
Software design Biotechnician  
Computational Biologist  
Biological Data Analyst  
Bioinformation Technologist

***Find Out More about Biology at UWF:***

***<http://uwf.edu/biology/bs-biology/>***