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 biology and pre-professional programs.

Student Learning Outcomes
UWF Biology graduates should be able to do the following:

Content
- Identify and use the concepts, principles, and theories that constitute the core sub-disciplines 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 professional activities
Assessment of Student Learning Outcomes

Students in the Biology Program will be assessed for Discipline Knowledge and Skills, and Critical Thinking by taking an exam developed by the Biology faculty covering the key competencies in Biology to be administered twice, once in a required freshman level course (test outcome not related to the grading of the course) and again in a required senior level Bio seminar course (test outcome not related to the grading of the course). Exam results from beginning/ending time points in the program will allow the Biology Department to determine the proficiency level of students coming out of high school at the start of the program, and the degree to which to the students have progressed through the program. Students in the Biology Program will be assessed for Integrity/Values and Communication by writing a summary critique of a presentation that includes Integrity/Values given in the required senior level Bioseminar course. Students in the Biology Program will be assessed for Project Management by assigning students to teams that will be required to review the primary literature on an appropriate topic and create a presentation to be given as part of a required upper division Biology course. Biology faculty will review the outcome of all assessment procedures to evaluate the current status of the program, and make suggestions for further improvement in programmatic effectiveness.

Employment Opportunities for Biology Graduates

- Biotechnology Industry
- Medical Research
- Biological Research
- Bioremediation
- Health Professions
- Public Health
- Pollution Control
- Forestry

- Scientific Research
- Government
- Education
- Microbiology
- Pharmaceuticals
- Food production
- Environmental work
- Agriculture

Find Out More about Biology at UWF:
http://uwf.edu/cse/departments/biology/undergradprograms/bs-biology/