

BIOLOGY – Master’s Program/Non-Thesis Track

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.

Student Learning Outcomes

UWF Biology MS/non-thesis graduates should be able to do the following:

Content

- Identify and define advanced concepts, principles, and theories that form the foundation of research in the biological sciences
- Effectively execute literature searches and employ the results in scientific writing.
- Describe discipline-related career paths for which recipients of the MS in Biology are qualified

Critical Thinking

- Employ and defend the scientific method in solving defined problems in the biological sciences
- Employ statistical methods appropriate to analysis of scientific data.

Communication

- Employ biological terminology accurately in oral presentations
- Use language in written form effectively and professionally in completing written assignments

Integrity/Values

- Apply ethical considerations in the conduct of scientific research with humans and animals as it applies to grants and research programs
- Adhere to appropriate ethical practices in professional activities

Project Management

- Design and execute a project within a reasonable timeframe
- Draw and defend conclusions related to the results of the assigned projects
- Collaborate effectively with your non-thesis advisor in completing the coursework and respond effectively to constructive feedback

Evaluation of Student Learning Outcomes

Biology graduate students will acquire the advanced skills and knowledge that allow them to function as professional scientists. Direct assessment in this program is conducted in the course Professional Development in Biology and includes assessment of the student's abilities to successfully complete and defend a research paper within reasonable timeframes and respond effectively to constructive feedback. Indirect assessment practices in this program include an exit survey and student evaluations of courses.

Job Prospects for Biology Graduates

MS/non-thesis in 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

Find Out More about Biology at UWF:

<http://uwf.edu/BIOLOGY/>

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College of Arts & Sciences

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