BIOLOGY: Biomedical Sciences

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 biomedical programs.

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

Content
- Identify and use the concepts, principles that constitute the core sub disciplines of the biomedical sciences
- Demonstrate competence in practical/laboratory/research skills in the biomedical science courses
- Describe the roles of biomedical professionals and the qualifications required for those careers

Critical Thinking
- Apply scientific method to solve problems in the biomedical sciences
- Evaluate and interpret data sets using appropriate statistical analysis

Communication
- Employ biomedical terminology accurately
- Communicate biomedical information in written and verbal form to professionals and to peers

Integrity/Values
- Articulate ethical challenges in biomedical fields, and ethical challenges in biomedical research
- Adhere to appropriate ethical practices in individual and group work
**Project Management**
- Execute a long-term project or capstone that addresses a medical issue
- Collaborate effectively with others on team projects

**Assessment of Student Learning Outcomes**
Students in the Biomedical Sciences Program will be assessed for Content and Critical Thinking by taking an exam developed by the Biology faculty covering the key competencies in Biomedical Sciences 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 Bioseminar 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 Biomedical Sciences 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 Biomedical Sciences 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, Scientific Research, Medical Research, Government, Health Profession assistants, application to professional schools.

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