

Assessment Report: Data Collection

Academic Year: 2011/12

College / Campus: ECoS/University Park

Baccalaureate Degree Program: Biology

List of Program Learning Objectives:

Students will understand the basis of genetic variation in sexually reproducing populations of organisms and the importance of this variation in the process of evolution.

Objectives for this goal:

- Students can describe the process of meiosis at the cellular level
- Students understand the role of meiosis in producing gametes
- Students appreciate the importance of this variation in populations for the process of natural selection

The group felt that initially it would be easier to develop and assess knowledge goals, focusing on a couple of areas, than skill goals.

Program Objective Selected:

This objective is satisfied exclusively / primarily / partially outside of General Education.

Data to be Collected:

A. Pretest at beginning of Bio 110 (first week) – 40 questions, includes 8-10 questions specifically to address this goal and its objectives.

B. Questions included in Biology 110 final exam – some pretest questions, some similar and some modified to be more challenging.

C. Questions included in the Biology 220W, 230W, and 240W exams, both during the semester and in the final exam.

Development will include:

- Writing questions to be used in a pretest, then at the testing levels above
- Questions would be written at different Bloom's levels, and more challenging questions introduced as the students progress
- Questions would be asked at multiple levels – some simple questions would continue to be asked as the students progress through their degree
- The next step is to establish a time table for completing and evaluating these questions before using them in F2011/Sp2011 courses