

Objective 2.1: Knowledge of the Liberal Arts

Course: BIOL 180, Principles of Biology

Students will possess a broad understanding of how to think about the world, having studied the modes of inquiry characteristic of humanities, mathematics, natural sciences, and social and behavioral sciences.

Outcomes 2.1-D: Natural Scientific Mode of Inquiry (lecture course)

By graduation students will:	Not Proficient 1 Point	Developing Proficiency 2 Points	Proficient 3 Points	Exceeding Proficiency 4 Points
D1: Identify essential characteristics of natural science questions (questions of empirical study and applications of scientific methodologies).	Student correctly identifies 0-60% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:1.	Student correctly identifies 61-69% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:1.	Student correctly identifies 70-89% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:1.	Student correctly identifies 90+% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:1.
D2: Evaluate the merits of examples of natural scientific research at the level of an informed citizen.	Student correctly identifies 0-60% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:2.	Student correctly identifies 61-69% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:2.	Student correctly identifies 70-89% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:2.	Student correctly identifies 90+% of the essential characteristics tested on the end of semester WCOSTM comprehensive quiz approved for outcome 2.1-D:2.

Assignment meeting Outcome 1: In the first part of the BIOL 180 course, students will learn about the scientific method and how it relates specifically to biology. The students will be assessed at the end of the semester by completing the Werth College of Science, Technology, and Mathematics common assessment (attached) that has been approved by the General Education Committee.

Assignment meeting Outcome 2: Students learn basic biological concepts and apply these concepts to evaluate scientific research at the level of an informed citizen. This course will use the Werth College of Science, Technology, and Mathematics common assessment (attached) that has been approved by the General Education Committee.