LIFE AND PHYSICAL SCIENCES
Student Learning Outcome Alignment Form

Course Prefix/Number: BIOL 2306

Course Title: Environmental Biology

Core Objective	Course SLO	General Learning Activities	Assessment
Critical Thinking Skills	SLO # 7. Describe environmental hazards and risks and the social and economic ramifications.	Students will participate in various field trips to local entities such as wastewater treatment plants, the New Boston landfill, local paper mills, a local superfund site—Carver Terrace, etc. Each student will submit a written report for each trip detailing insights gained from the trips, and summarizing major functions including environmental risks and benefits of each entity. (See attached field trip list, write up assignment	Exam questions. See attached rubric.
Communication Skills	SLO # 5. Quantify and analyze the impact of lifestyle on the environment	Students will develop a campus and city-wide recycling program creating a report detailing the steps involved in completing this task, developing a budget, drawing a map of the area indicating position of bins, etc., sample job postings for workers, sample memos to employees, a list of applicable state laws pertinent to the recycling program, and suggested training. Students will present their programs to the class. (see attached Recycling Program assignment)	Exam questions. See attached rubric

Empirical & Quantitative Skills	SLO # 8. Describe ecological and statistical techniques and approaches used in the study of environmental biology.	Students will participate in the Texas Stream Team Initiative. In this program, students attend a workshop to gain state certification in water testing, then in groups of 2 or 3 participate in monthly monitoring of a local body of water. Stream Team members test for temperature, conductivity, pH, and dissolved oxygen, completing a Texas Stream Team Environmental Monitoring Form. They compare current readings with past, and look for trends. (see attached monitor form)	Exam questions. See attached rubric
Teamwork	SLO # 8. Describe ecological and statistical techniques and approaches used in the study of environmental biology.	Students will participate in the Texas Stream Team Initiative. In this program, students attend a workshop to gain state certification in water testing, then in groups of 2 or 3 participate in monthly monitoring of a local body of water. Stream Team members test for temperature, conductivity, pH, and dissolved oxygen, completing a Texas Stream Team Environmental Monitoring Form. They compare current readings with past, and look for trends. (see attached monitor form)	Exam questions. See attached rubric