2024-2025 Assessment Plans and Reports

BS in Environmental Science - BS-EVSC

Academic year 2024-2025

BS in Environmental Science - BS-EVSC Learning Outcomes

Outcome 1 - Limnological research skills

Students will perform limnological field and laboratory protocols with technical accuracy.

Rational: Limnology is a practical course that teaches students the necessary field and laboratory skills to be successful in environmentally related professions. The class project is a cumulative field and laboratory exercise where students apply the knowledge and skills learned in the Limnology class

Environmental Science students enrolled in Limnology (4430) will:

- 1. Collect field and laboratory data.
- 2. Analyze and interpret the data using acceptable techniques.
- 3. Develop written reports that are well organized and clear to a lay person.

MEASURES	RESULTS	ACTIONS
Measure 1 - Limnological research skills	MET limnology findings 2025.pdf	No actions have been added.
Environmental Science students enrolled in Limnology (4430) will: 1. Collect field and laboratory data. 2. Analyze and interpret the data using acceptable techniques. 3. Develop written reports that are well	Analysis The target level of performance was exceeded for all four of the rubric dimensions	
organized and clear to a lay person. The following rubric will be used for assessment of each Environmental Science student enrolled in the Limnology class. The instructor will circle the level that applies for each student.		
Direct - Assignment		
Limnology: BIOL 4430 Target		
Target - The desired level of performance for Environmental Science students in the Limnology class was 3.0 out of a four point scale on the Limnology rubric. This represents an increase from a target of 2.5, which was used prior to 2024.		
limnology assessment.pdf		

Outcome 2 - Population and community structure research

Students will perform field and laboratory protocols for studying populations and community structure and interpret these data in a scientific report.

Rational: Populations and communities are quantified and described in ecology using a standard set of procedures and statistics. This laboratory exercise and paper will evaluate the student's ability to collect data, calculate and interpret the statistics, and describe the populations and community.

Environmental Science students enrolled in Ecology (Biology 4460) during Fall semester will perform field and laboratory methods used to describe community structure of a tree and shrub community in southeast Texas.

MEASURES RESULTS ACTIONS

Measure 2 - Population and community structure research

Environmental Science students enrolled in Ecology (Biology 4460) during Fall semester will perform field and laboratory methods used to describe community structure of a tree and shrub community in southeast Texas.

The following rubric will be used for assessment of each Environmental Science student enrolled in the Ecology class. The instructor will circle the level that applies for each student.

Direct - Assignment

Ecology: BIOL 4460

Target

Target - The desired level of performance for Environmental Science students in the Ecology class was 3.0 out of a four point scale on the Ecology rubric. This represents an increase from a target of 2.5, which was used prior to 2024.

ecology assessment.pdf

MET

ecology findings 2025.pdf

Analysis

The overall average performance level for Environmental Science students in the Ecology class was 3.0 ± 0.2 out of a fourpoint scale on the Ecology rubric, meeting the target level. For the individual rubric dimensions, two of the four exceeded the target level

No actions have been added.

Outcome 3 - Apply knowledge in environmental science internship expe

Students will apply the knowledge gained from the environmental science curriculum in a one term internship in which they must learn the duties of their internship and conduct themselves in a professional manner.

Rational: The internship is the actual application of the knowledge learned in the Environmental Science curriculum to real world situations. The student gets on the job experiences and learns how to behave in a professional manner.

MEASURES	RESULTS	ACTIONS
Measure 3 - Apply knowledge in environmental science internship experience	MET internship findings 2025.pdf Analysis	No actions have been added.
The following rubric will be used to assess each Environmental Science student in the internship program. Entries in the student's daily journal, the student's summary report, and the evaluation from the student's supervisor will be used to score the assessment dimensions. Direct - Other Undergraduate Problems: BIOL 4300	The overall average performance level for Environmental Science students in the internship program was 3.8 ± 0.2 out of a four-point scale on the Environmental Science Internship Experience rubric, exceeding the target level. The desired level of performance was exceeded in all four of the specificrubric dimensions	
Target - The desired level of performance for Science students in the internship program was 3.0 out of a four point scale on the Environmental Science Internship Experience rubric. This represents an increase from a target of 2.5, which was used prior to 2024.		

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internship assessment.pdf			
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