2024-25 Annual Assessment Report

Bachelor Environmental & Earth Science

Academic Year 2024-2025

Bachelor Environmental & Earth Science Learning Outcomes

Scientific Communication

Students will communicate scientific information through written, oral, and graphical expression with clarity, logical organization, and use of scientific evidence to support their ideas.

MEASURES	RESULTS	ACTIONS
Final Presentation In Geology	MET Final Presentation In Geology ■ Exceeded ■ Met	No actions have been added.
Students must develop a research project of their choice to present to the class by using scientific databases to find primary resources and data (or they can collect and analyze their own data from a local field site) then synthesize, organize, and		
visually present that information using figures as part of an oral presentation. This culminates in a 8-10 minute oral (powerpoint) presentation that addresses geologic processes that relate to our society in the form of resources, hazards, or an area's natural history.	0% 100% Values are not shown when too close to each other. Click or use arrow keys to see details. Exceeded: 67% Met: 33%	
Direct - Assignment Geology: GEOG 2100	Met Total: 100% Not Met Total:	
Target	Analysis	
80% of students proficient or better	2 of the 3 EES majors in this course exceeded expectations by earning above a 95% with the third student meeting expectations - earning above an 85%.	

Scientific Process

Students will use the scientific process, including experimental design, analysis, and critical evaluation of information, and integration of evidence from relevant sources, in the context of environmental investigations.

RESULTS		ACTIONS
MET Experiment design and ■ Exceeded ■ Met	l lab report	No actions have been added.
Exceeded: Met:	67% 33%	
Not Met Total:	100%	
	Experiment design and Exceeded Met O% Values are not shown whe Click or use arrow keys to Exceeded: Met: Met Total:	Exceeded Met O% 100% Values are not shown when too close to each other. Click or use arrow keys to see details. Exceeded: 67% Met: 33% Met Total: 100% Not Met Total:

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re	idents were evaluated on 4 criterion evant to this LO. All six students met or ceeded expectations for all four criteria.	
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Earth Systems

Students will discuss the structure and composition of Earth's interior, surface, and atmosphere, and explain what it means to consider Earth as a system.

MEASURES No measures have been added.

Environmental Interactions

Describe the complex interactions between humans and their environment, including geologic hazards, air and water pollution, global environmental issues, and use and conservation of Earth's resources.

MEASURES	RESULTS	ACTIONS
Recent climate change assignment This assignment has students interact with recent climate change data, including trends in global temperature, sea level, sea ice extent, mountain glaciers, and ocean heat content. Students discuss the data and to what degree they provide evidence of climate change. They also discuss reasons for the change, evaluating a variety of potential factors that contribute to climate change. Finally, they examine recent change and projections for a particular region of the world. Direct - Assignment Climatology: GEOG 3110 Target 80% of students score proficient or better	MET Recent climate change assignment ■ Exceeded 0% 100% Values are not shown when too close to each other. Click or use arrow keys to see details. Exceeded: 100% Met Total: 100% Not Met Total: Analysis All EES students who submitted this assignment (9 of 17 enrolled in the course) earned over 90% on this assignment.	Revise Measurement / Assessment IN PROGRESS This assignment could be modified slightly for application to this learning outcome. In particular, the score for just the questions that align with this LO (rather than the assignment grade as a whole) would be better reflect the degree to which students are meeting this outcome. Recommended Due Date: 12/31/2025