Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 1: Fundamental concepts
Students will acquire fundamental concepts in areas of earth surface morphology, mineralogy, earth history and evolution, environmental science, and surface and subsurface earth processes.

Related Measures

M 1: Pre/post test
All senior level undergraduate students will complete pre- and post-course exams of the EES capstone course, Senior Seminar.

Source of Evidence: Faculty pre-test / post-test of knowledge mastery

Target:
80% of students will score a B or better on the exit exam and all students will show a increase in their pre- and post-course exam scores.

SLO 2: Construct and effectively present information and concepts
Students will be able to construct and effectively present information and concepts visually and verbally through oral PowerPoint presentations.

Related Measures

M 2: Oral presentations
All undergraduate students will present oral presentations in the EES capstone course Senior Seminar.

Source of Evidence: Capstone course assignments measuring mastery

Target:
80% of the students will achieve a B or better on their presentation using a grading rubric developed by faculty consensus.

SLO 3: Present and interpret data
Students will be able to explain earth and environmental sciences concepts and present and interpret data in technical writing format by their date of graduation.

Related Measures

M 3: Multi-page written assignments
All undergraduate students will score B or better on two multi-page written assignments in the EES capstone course Senior Seminar.

Source of Evidence: Written assignment(s), usually scored by a rubric

Target:
80% of the students will achieve a B or better on their written presentations.

SLO 4: Student satisfaction
Students will express high satisfaction with the program.

Related Measures

M 4: Exit survey
Students will complete written exit surveys describing their overall satisfaction with the program and their career and personal goal.

Source of Evidence: Academic indirect indicator of learning - other

Target:
With Senior Seminar exit surveys, 80% or more of respondents will rate their overall experience throughout their EES tenure as positive.

M 5: Student course evaluations
Student course evaluations.

Source of Evidence: Student satisfaction survey at end of the program

Target:
All concentration level and elective courses required of the degree will achieve at least 2.8 out of 5.0 for overall quality of course.