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

SLO 1: Ability to apply knowledge
1. Graduates receiving the B.S. in Civil Engineering will have the ability to apply knowledge of mathematics, science and engineering to identify, formulate, and solve engineering problems.

Related Measures

M 1: Senior Seminar proficiency exam
Embedded items on the Senior Seminar Proficiency exam, see ENCE 4399 rubric

Source of Evidence: Academic direct measure of learning - other

Target:
All students will achieve a 2.5 out of 4 rating.

M 2: NCEES FE test
NCEES FE test.

Source of Evidence: Standardized test of subject matter knowledge

Target:
Student group score within 1 standard deviation of national average, not meeting this target for three consecutive years creates "concern" status

SLO 2: Ability to design and conduct experiments
Graduates receiving the B.S. in Civil Engineering will have the ability to design and conduct experiments as well as analyze and interpret data.

Related Measures

M 3: Rubrics used within specific mapped courses
ENCE 2301, 3341, 3326 - rubrics applied to coursees

Source of Evidence: Academic direct measure of learning - other

Target:
Students will score an average of at least 2.5 out of 4.

SLO 3: Ability to design a system
Graduates receiving the B.S. in Civil Engineering will have the ability to design a system, component or process to meet desired needs within realistic constraints, economic, political, environmental, social, ethical, health, sustainability and manufacturability.

Related Measures

M 4: Rubrics used within specific mapped courses
ENCE 4358, 4340, 4323, 4318, 4390, rubrics applied to courses

Source of Evidence: Academic direct measure of learning - other

Target:
Students will score an average of at least 2.5 out of 4.