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

SLO 1: Knowledge of math, science & engineering
Graduates will demonstrate an ability to apply knowledge of mathematics, science and engineering

Connected Document
CID Outcome 1

Related Measures

M 1: AM section
FE scores in Math/Science/Engineering topics – AM section.
Source of Evidence: Standardized test of subject matter knowledge
Target:
80% will achieve a passing score.

SLO 2: Experiments & analyze data
Graduates will demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data

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CID Outcome 2

Related Measures

M 2: Assessment of ability
Assessment of ability using outcome specific departmental rubrics applied to assignments in ENME 3716 (O.2) and ENME 3780 (O.5).
Source of Evidence: Academic direct measure of learning - other
Target:
80% will score at “Criteria Met” or above on the rubric.

SLO 3: Design a system or process
Graduates will demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

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CID Outcome 3

Related Measures

M 3: Design jury assessment
Capstone project design jury assessment using a departmental rubric.
Source of Evidence: Capstone course assignments measuring mastery
Target:
80% will achieve a score of “Criteria Met” or above.

SLO 4: Identify, formulate, and solve
Graduates will demonstrate an ability to identify, formulate, and solve engineering problems

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CID Outcome 4

Related Measures

M 4: PM section
FE scores in Engineering topics – PM section.
Source of Evidence: Standardized test of subject matter knowledge
Target:
80% will achieve a score above (-.5σ) of national average

SLO 5: Techniques, skills, and modern engineering tools
Graduates will demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

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CID Outcome 5

Related Measures

M 2: Assessment of ability
Assessment of ability using outcome specific departmental rubrics applied to assignments in ENME 3716 (O.2) and ENME 3780 (O.5).
Source of Evidence: Academic direct measure of learning - other
**Target:**
80% will score at "Criteria Met" or above on the rubric.