### 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 | 80% will achieve a passing score. |
| M 5: Alumni/Industry surveys | Alumni/Industry surveys are performed biannually and include rating UNO ME graduates' abilities related to each outcome on a scale of 1-5.  
| Source of Evidence: Alumni survey or tracking of alumni achievements | 80% will score at level of "Criteria Exceeded" (4 of 5) or above. |

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

**Connected Document**  
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 | 80% will score at “Criteria Met” or above on the rubric. |
| M 5: Alumni/Industry surveys | Alumni/Industry surveys are performed biannually and include rating UNO ME graduates' abilities related to each outcome on a scale of 1-5.  
| Source of Evidence: Alumni survey or tracking of alumni achievements | 80% will score at level of "Criteria Exceeded" (4 of 5) or above. |

**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

**Connected Document**  
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 | 80% will achieve a score of “Criteria Met” or above. |
| M 5: Alumni/Industry surveys | Alumni/Industry surveys are performed biannually and include rating UNO ME graduates' abilities related to each outcome on a scale of 1-5.  
| Source of Evidence: Alumni survey or tracking of alumni achievements | 80% will score at level of "Criteria Exceeded" (4 of 5) or above. |

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

**Connected Document**
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

**M 5: Alumni/Industry surveys**  
Alumni/Industry surveys are performed biannually and include rating UNO ME graduates’ abilities related to each outcome on a scale of 1-5.  
Source of Evidence: Alumni survey or tracking of alumni achievements  
**Target:**  
80% will score at level of “Criteria Exceeded” (4 of 5) or above.

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

**Connected Document**  
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.

**M 5: Alumni/Industry surveys**  
Alumni/Industry surveys are performed biannually and include rating UNO ME graduates’ abilities related to each outcome on a scale of 1-5.  
Source of Evidence: Alumni survey or tracking of alumni achievements  
**Target:**  
80% will score at level of “Criteria Exceeded” (4 of 5) or above.