2024-2025 Assessment Plans and Reports

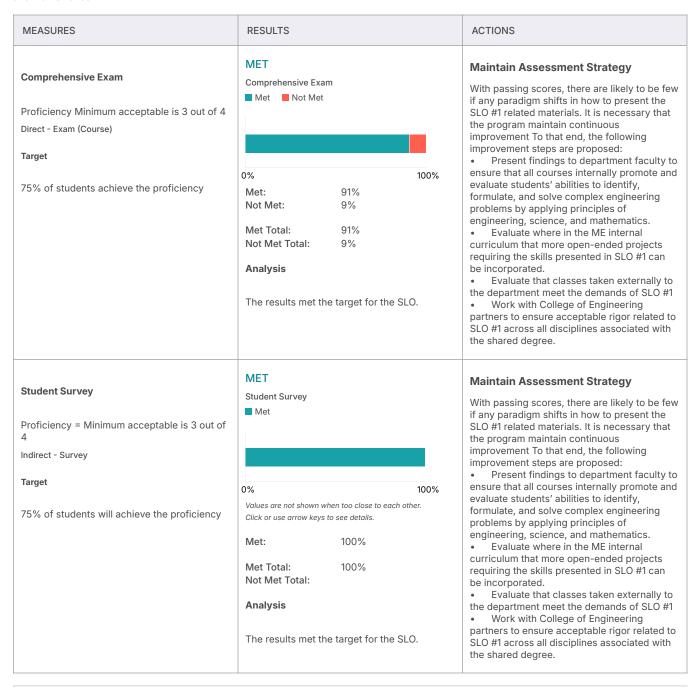
ME-Chemical Engineering - ME-MECH

Academic year 2024-2025

ME-Chemical Engineering - ME-MECH Learning Outcomes

Application of Engineering, Science, and Mathematics Principles

Students will demonstrate an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

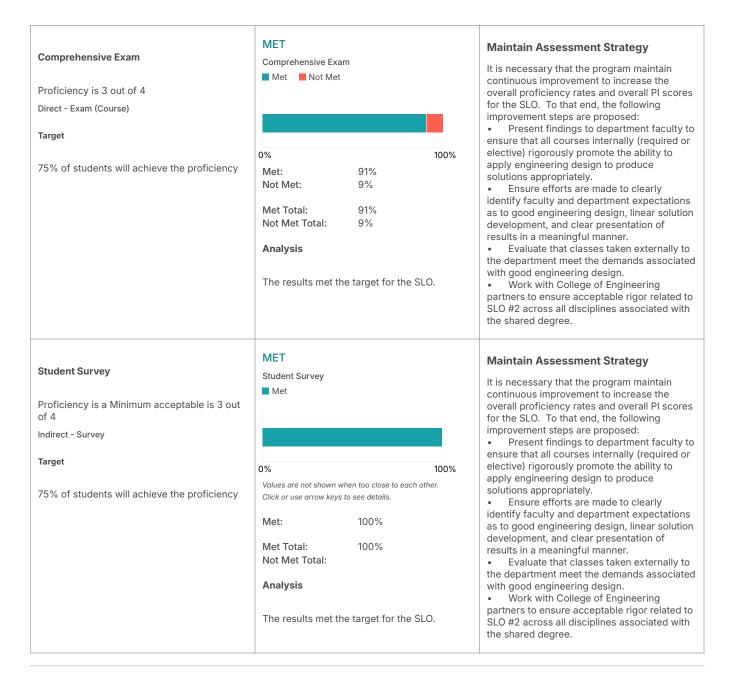


Engineering Design

Students will demonstrate an ability to apply engineering design to produce solutions appropriately.

| | MEASURES | RESULTS | ACTIONS |
|--|----------|---------|---------|
|--|----------|---------|---------|

ME-Chemical Engineering - ME-MECH



Engineering Analysis

Students will demonstrate an ability to use modern engineering tools to produce engineering analysis in a systematic manner.

| MEASURES | RESULTS | ACTIONS |
|---|---------------------------------------|---|
| Comprehensive Exam Proficiency Minimum acceptable is 3 out of 4 Direct - Exam (Course) Target | MET Comprehensive Exam ■ Met 0% 100% | Maintain Assessment Strategy It is necessary that the program maintain continuous improvement to increase the overall proficiency rates and overall PI scores for the SLO. To that end, the following improvement steps are proposed: Present findings to department faculty to ensure that all courses internally (required or elective) rigorously promote the ability to |

ME-Chemical Engineering - ME-MECH

75% of students achieve the proficiency mentioned above

Values are not shown when too close to each other. Click or use arrow keys to see details.

Met: 100%

Met Total: 100%

Not Met Total:

Analysis

The results met the target for the SLO.

apply engineering design to produce solutions appropriately.

- Provide clear language in the syllabi of internal courses as to the student learning outcomes and expectations associated.
- Provide access and utilization of modern tools/techniques in internally offered courses to ensure effective student coverage.
- Evaluate that classes taken externally to the department to see what modern tools and techniques are being used. If a course appears to not meet the needs of SLO #3, then internal coverage becomes even more critical.
- Work with College of Engineering partners to ensure acceptable rigor related to SLO #3 across all disciplines associated with the shared degree.

Student Survey

Proficiency is a 3 out of 4 on rubric Indirect - Survey

Target

75% of students achieve the proficiency mentioned above

MET

Student Survey

Met



Values are not shown when too close to each other. Click or use arrow keys to see details.

Met: 100%

Met Total: 100%

Not Met Total:

Analysis

The results met the target for the SLO.

Maintain Assessment Strategy

It is necessary that the program maintain continuous improvement to increase the overall proficiency rates and overall PI scores for the SLO. To that end, the following improvement steps are proposed:

- Present findings to department faculty to ensure that all courses internally (required or elective) rigorously promote the ability to apply engineering design to produce solutions appropriately.
- Provide clear language in the syllabi of internal courses as to the student learning outcomes and expectations associated.
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