

Annual Academic Assessment Report

Master of Science in Civil Engineering (MSCE)

Student Learning Outcomes:

1. Apply knowledge of math, science, and engineering to solve advanced-level problems in civil engineering.
2. Locate and evaluate pertinent published literature relevant to a given topic, and apply the information gained to a design, analysis, or research effort.
3. Effectively communicate scientific and technical information in English, both in writing and oral forms.
4. Design and conduct experiments, and analyze and evaluate the resulting data.
5. Design a system, component, or process to meet a scientific or technological need.

Assessment and Evaluation: AY 2023-2024

The Department of Civil Engineering evaluated Student Learning Outcome assessment data while producing a Program Self-Study Report for its 7-year program review, scheduled for September 17-19, 2023. The results of the analysis include the following:

- **Outcome 1:**
 - Problem solving skills exhibited by the Graduate Committee Assessment of Abilities scores indicate students are achieving the Outcome at the desired target level.
- **Outcome 2:**
 - Literature review and application skills exhibited by the Graduate Committee Assessment of Abilities scores indicate students are achieving the Outcome at the desired target level.
- **Outcome 3:**
 - Communication skills exhibited by the Graduate Committee Assessment of Abilities scores indicate students are achieving the Outcome at the desired target level.
- **Outcome 4:**
 - Experimental design, conduct, and evaluation skills exhibited by the Graduate Committee Assessment of Abilities scores indicate students are achieving the Outcome at the desired target level.

- **Outcome 5:**

- Design skills exhibited by the Graduate Committee Assessment of Abilities scores indicate students are achieving the Outcome at the desired target level.

Changes to the Degree Program – Planned or Considered

Based on recommendations from the external reviewers from the Graduate Program Review which occurred September 17 - 19, 2023, the faculty voted to develop an accelerated MSCE/Ph.D. program for our graduates. This will allow students to count up to six hours of graduate level courses from their BSCE towards their MSCE/Ph.D.

Changes to the Assessment Process – Planned or Completed

No changes to the assessment process are planned, or were completed in 2023-2024, based on evaluation of assessment data.