



## Annual Assessment Report 2022-2023

### BS Electronic Systems Engineering Technology Electromechanical Engineering Technology College of Engineering

#### CONTACT

Name of Program Assessment Lead Scott Boskovich

Name of Person Completing Report Scott Boskovich

**DISCIPLINARY ACCREDITATION** No

#### DEVELOPMENT AND DOCUMENTATION OF STUDENT LEARNING OUTCOMES

How were the program's SLOs developed? (select all that apply)

- Our disciplinary accrediting agency has required learning outcomes, so we use them.
- We developed them as a program/department using our own knowledge and expertise of the field.

Other than the [CPP Catalog](#) and the [Office of Assessment and Program Review website](#), where else are your SLOs published? Select all that apply.

- Department Website - provide URL: <https://www.cpp.edu/engineering/et/eset/index.shtml>

#### ASSESSMENT ACTIVITIES IN 2022-2023

This section provides the opportunity for programs to share and discuss assessment activities conducted in **AY 2022-2023**. This includes data collection, rubric development, data analysis, discussion of findings, development or implementation of closing the loop improvement strategies, update of your assessment plan and/or curriculum matrix, etc.

How many total SLOs does your program assess according to your assessment plan?

- 5

**How many SLOs did your program assess this past year in 2022-2023?**

- My program assessed SLOs in AY 2022-2023 (e.g., artifact collection, scoring, closing the loop, etc.). May also have engaged in assessment planning activities unrelated to specific SLOs (e.g., modified curriculum matrix, assessment plan, etc.).

**Please list the SLOs examined**

- SLO #1: Students will have an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
- SLO #2: Students will have an ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
- SLO #3: Students will have an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
- SLO #4: Students will have an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
- SLO #5: Students will have an ability to function effectively as a member as well as a leader on technical teams.

**Student Learning Outcome (SLO):** Students will have an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> <li>Created/modified/discussed assessment procedures (e.g., SLOs, curriculum matrix, mechanism to collect student work, rubric, survey, etc.)</li> </ul>		
<ul style="list-style-type: none"> <li>Collected direct evidence (e.g., student work, exam items, etc.)</li> <li>Scored direct evidence of student learning</li> <li>Interpreted and made meaning of findings for direct evidence</li> </ul>	<ul style="list-style-type: none"> <li>Assignment/exam/paper completed as part of regular coursework</li> </ul>	<ul style="list-style-type: none"> <li>Used rubric or scoring guide</li> <li>Scored exams/tests/quizzes</li> </ul>

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
10	Percentage	Yes	Overall improvement

**Student Learning Outcome (SLO):** Students will have an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.

<b>Assessment Activities</b>	<b>Evidence Used</b>	<b>Evaluation and Interpretation of Evidence</b>
<ul style="list-style-type: none"><li>Collected direct evidence (e.g., student work, exam items, etc.)</li></ul>	<ul style="list-style-type: none"><li>Assignment/exam/paper completed as part of regular coursework</li></ul>	

**Student Learning Outcome (SLO):** Students will have an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> <li>Collected direct evidence (e.g., student work, exam items, etc.)</li> <li>Scored direct evidence of student learning</li> </ul>	<ul style="list-style-type: none"> <li>Capstone product (e.g., project, senior thesis, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Used rubric or scoring guide</li> </ul>

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
21	Rubric	Yes	Completeness of work

**Student Learning Outcome (SLO):** Students will have an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> <li>Collected direct evidence (e.g., student work, exam items, etc.)</li> <li>Scored direct evidence of student learning</li> </ul>	<ul style="list-style-type: none"> <li>Assignment/exam/paper completed as part of regular coursework</li> </ul>	<ul style="list-style-type: none"> <li>Used rubric or scoring guide</li> </ul>

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
30	Rubric	Yes	Overall improvement

**Student Learning Outcome (SLO):** Students will have an ability to function effectively as a member as well as a leader on technical teams.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> <li>Collected direct evidence (e.g., student work, exam items, etc.)</li> <li>Scored direct evidence of student learning</li> </ul>	<ul style="list-style-type: none"> <li>Assignment/exam/paper completed as part of regular coursework</li> </ul>	<ul style="list-style-type: none"> <li>Used rubric or scoring guide</li> </ul>
<ul style="list-style-type: none"> <li>Interpreted and made meaning of findings for indirect evidence</li> </ul>		

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
30	Rubric	Yes	Student interaction

## IMPROVING THROUGH ASSESSMENT

**Overall, what best describes how the program used the results in 2022-2023? Select all that apply.**

- Assessment procedure changes (SLOs, curriculum matrix, rubrics, evidence collected, sampling, communications with faculty, etc.)

**Ideas to improve student learning can come from different constituents. With whom did the program discuss assessment planning and/or share results during AY 2021-2022? Select all that apply.**

- Program/department faculty as whole
- A committee of program/department faculty
- Program/department assessment committee
- College assessment committee

**The past academic year posed both challenges and opportunities. Please share any assessment discoveries (e.g., insights about assessment procedures, great achievements, etc.) regarding program assessment in 2022-2023 so that others may learn from your experiences.**

Students continue to improve each year. Feedback and discussion is vital to improving programs.

**Please share how the program triangulates various data sources to determine student success. Consider assessment findings, [CPP's GI2025 markers](#), [CSU Dashboard](#), [CPP's Student Success Dashboard on Tableau](#), course evaluations, etc.**

The program assesses the students work from class to class to ensure they are prepared for the subsequent classes. As the students complete the program we see continued improvement in the senior level courses and capstone projects regarding depth, technical competency and thoroughness.

**Does the program offer a certificate or credential (e.g., teaching credential)?**

- No

**The most current assessment plan and curriculum matrix we have on file for your program may be found [here](#). To ensure we have the most updated assessment plan and curriculum matrix for your program, and for posting on our website, please upload the following documents:**

**Assessment Plan - No**

**Curriculum Matrix - No**