Annual Assessment Report 2022-2023

MS Aerospace Engineering

Aerospace Engineering

College of Engineering

CONTACT
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Name of Person Completing Report Navid Nakhjiri

DISCIPLINARY ACCREDITATION No

DEVELOPMENT AND DOCUMENTATION OF STUDENT LEARNING OUTCOMES
How were the program's SLOs developed? (select all that apply)
- o   We do not have disciplinary accreditation but drew from our disciplinary/professional organizations, and developed our SLOs as a program/department.
- o   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/aro/graduate/index.shtml
- Brochures or other printed material

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?

- 4

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: Develop a strong mathematical and physical foundation to analyze advanced engineering problems.
- SLO #2: Analyze and Design complex aerospace systems.
- SLO #3: Organize and Perform independent research to contribute to advancing knowledge and technologies in aerospace engineering.
- SLO #4: Demonstrate excellent oral and written communication skills.

Student Learning Outcome (SLO): Develop a strong mathematical and physical foundation to analyze advanced engineering problems.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
• Collected direct evidence (e.g., student work, exam items, etc.)	• Oral performance (e.g., presentation, defense, conference presentation, etc.) • Publication or grant proposal • Thesis or dissertation (graduate-level only)	

Student Learning Outcome (SLO): Analyze and Design complex aerospace systems.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
• Collected direct evidence (e.g., student work, exam items, etc.)	• Assignment/exam/paper completed as part of regular coursework • Oral performance (e.g., presentation, defense, conference presentation, etc.) • Publication or grant proposal • Thesis or dissertation (graduate-level only)	

Student Learning Outcome (SLO): Organize and Perform independent research to contribute to advancing knowledge and technologies in aerospace engineering.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
• Collected direct evidence (e.g., student work, exam items, etc.)	• Assignment/exam/paper completed as part of regular coursework • Oral performance (e.g., presentation, defense, conference presentation, etc.) • Publication or grant proposal • Thesis or dissertation (graduate-level only)	

Student Learning Outcome (SLO): Demonstrate excellent oral and written communication skills.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
• Collected direct evidence (e.g., student work, exam items, etc.)	• Assignment/exam/paper completed as part of regular coursework • Oral performance (e.g., presentation, defense, conference presentation, etc.) • Publication or grant proposal • Thesis or dissertation (graduate-level only)	

IMPROVING THROUGH ASSESSMENT

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

- Use is pending (typical reasons: insufficient number of students in population, evidence not evaluated or interpreted yet, faculty discussions are ongoing, 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.

- No discussion occurred in AY 2022-2023

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.
We started a new assessment cycle in 2022-23 with collecting data for the first year only.

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 shows an increase in enrollment and more diverse student backgrounds.

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 - Yes

Curriculum Matrix - Yes