



## Annual Assessment Report 2023-2024

### MS Mathematics Department of Mathematics & Statistics College of Science

#### CONTACT

Name of Program Assessment Lead Stacy Brown

Name of Person Completing Report Stacy Brown

DISCIPLINARY ACCREDITATION No

#### DEVELOPMENT AND DOCUMENTATION OF STUDENT LEARNING OUTCOMES

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

- ☐ 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/sci/mathematics-statistics/graduate-students/graduate-assessment-procedures.shtml>

#### ASSESSMENT ACTIVITIES IN 2023-2024

This section provides the opportunity for programs to share and discuss assessment activities conducted in **AY 2023-2024**. 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 2023-2024?**

- My program engaged in other assessment activity not specific to any SLO (e.g., modified curriculum matrix or assessment plan, received all data for program review, etc.)

**Please share the assessment activities the program engaged in that were not specific to any SLOs.**

Our MS programs in the mathematics department are going through a period of significant transition. Specifically, in order to comply with executive orders (EOs) from the chancellor's office and to advance towards modern needs, our MS program was split into two programs. An MS in mathematics (pure) and MS in Statistics and Applied Mathematics (SAM). This process, which took several years, culminated this fall (2024) in the MS in SAM program opening. The assessment committee, in preparation for these changes began discussions of a new assessment plan for the MS in mathematics (pure) and the archiving of all assessment data, reports and rubrics for our previously combined programs. Furthermore, previously the assessment coordinator for the department worked with the graduate committee to develop a full assessment plan for the MS in SAM.

## IMPROVING THROUGH ASSESSMENT

Ideas to improve student learning can come from different constituents. With whom did the program discuss assessment planning and/or share results during AY 2023-2024? Select all that apply.

- A committee of program/department faculty
- Program/department 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 2023-2024 so that others may learn from your experiences.

Given recent technological tool advances and the role of statistics and mathematics plays with regard to these tools, we have begun discussions of what an ethics SLO will look like for our department. This is going to be harder than we anticipated.

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, [CPP's Graduating Senior Survey](#) on Tableau, course evaluations, etc.

Our triangulation processes involve three steps: (1) we gather and score data with a collective of faculty who have diverse backgrounds; (2) findings of the data are discussed with course faculty to better understand the context and potential issues with the data analysis and findings; and (3) findings are reviewed by the faculty department as a whole, to determine if there are issues outside of the specific courses which impact findings.

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