

## Bachelor of Science with a major in Mathematics, Macon

Semester reporting: Spring Semester 2021

Reporting cycle: Annual Reporting Cycle

### Academic Program Assessment by Location Report Information

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In which school is this program located?	Computing
Program Type:	Undergraduate
Approximately how many students are enrolled in this program at this location?	53

## Student Learning Outcomes

### SLO1

7. SLO 1: What is the first Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Successful mathematics majors will be able to demonstrate an understanding of the common body of knowledge in mathematics.
8. SLO 1: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Targeted exam questions on assignments in the Calculus sequence
9. SLO 1: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on....)	70
10. SLO 1: During this assessment cycle, what percent of the students who participated in this assessment demonstrated mastery of this learning outcome? (this should be a number between 0-100)	72.6
11. SLO 1: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	The target performance measure was met. Instruction in the Calculus sequence is continually trying to be improved through pedagogical strategies (review sessions, prerequisite remediation, etc.) This SLO will continue to be monitored carefully as the classes involved are an important foundation for mathematics majors.

## Student Learning Outcomes

### SLO2

12. SLO 2: What is the second Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Successful mathematics majors will be able to demonstrate logical argumentation, analysis, and synthesis skills.
13. SLO 2: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Targeted assignment aligned to SLO in MATH 4480 (Graph Theory)
14. SLO 2: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on.....).	70
15. SLO 2: During this assessment cycle, what percent of the students who participated in this assessment demonstrated mastery of this learning outcome? (this should be a number between 0-100)	83.3
16. SLO 2: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	The target performance measure was met. This SLO will continue to be monitored.

## Student Learning Outcomes

### SLO3

17. SLO 3: What is the third Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Successful mathematics majors will be able to demonstrate the ability to formulate, analyze, and solve problems through analytical and computational techniques.
18. SLO 3: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Targeted assignment aligned to SLO in an applied mathematics course (MATH 4622 for Fall 2020)
19. SLO 3: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on.....).	70
20. SLO 3: During this assessment cycle, what percent of the students who participated in this assessment demonstrated mastery of this learning outcome? (this should be a number between 0-100)	75
21. SLO 3: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	The target performance measure was met. This SLO will continue to be monitored.

## Student Learning Outcomes

### SLO4

22. SLO 4: What is the fourth Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Successful mathematics majors will be able to communicate mathematical principles and ideas with clarity and coherence.
23. SLO 4: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Targeted assignment aligned to SLO in MATH 2260 (Intro to Linear Algebra)
24. SLO 4: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on.....)	70
25. SLO 4: During this assessment cycle, what percent of the students who participated in this assessment demonstrated mastery of this learning outcome? (this should be a number between 0-100)	71.4
26. SLO 4: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	The target performance measure was met, though not by a great deal. This SLO will continue to be monitored.

## Sampling

27. How many students participated in the assessment of these learning outcomes, in this program, for this assessment cycle at this location?	15
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## Open Box for Assessment Comments

28. In this field, please document the overall use of assessment results for continuous improvement and Open Text Box For Assessment Comments:	All performance targets were met, though with SLO #1 and SLO #4, they were met by a close margin. The department will review the assessment instruments for these SLO's to ensure that they align to the objectives.
29. If the COVID-19 pandemic impacted this assessment cycle, please provide specific details below.	Most classes, including those in this assessment cycle, were online in the fall 2020 and spring 2021 semester. These classes usually are not offered online, so there was a great deal of adjustment from both the instructors' and the students' perspective. It is not known how much of an impact this may have had on assessment results.