

Bachelor of Science with a major in Mathematics, Macon

Semester reporting: Spring Semester 2022

Reporting cycle: Annual Reporting Cycle

Academic Program Assessment by Location Report Information

Prepared on: 4/5/2022 14:03 PM	Prepared by: barry.monk@mga.edu
	Email address of person responsible for this report: barry.monk@mga.edu
In which school is this program located?	Computing
Program Type:	Undergraduate
Approximately how many students are enrolled in this program at this location?	57

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.....)	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) and provide specific details of the instrument (e.g. Exam 2, Course HLSA 3800; Final Group Project, HIST 3900)	Targeted subject questions on Final Exam in MATH 2252
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: Provide details for your target performance level established (i.e. accreditation requirement, past performance data, peer program review, etc)	Based on discussions with other department chairs about similar assessments, a target performance level of 70% was set as it was the level that is considered "passing".
11. 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)	81.8%
12. SLO 1: Improvement Plans and 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

13. 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.....)	Demonstrate the ability to formulate, analyze, and solve problems through analytical and computational techniques.
14. 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) and provide specific details of the instrument (e.g. Exam 2, Course HLSA 3800; Final Group Project, HIST 3900)	Targeted subject questions on Exam 04 in MATH 4150
15. 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%
16. SLO 1: Provide details for your target performance level established (i.e. accreditation requirement, past performance data, peer program review, etc)	Based on discussions with other department chairs about similar assessments, a target performance level of 70% was set as it was the level that is considered "passing".
17. 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)	82.6%
18. SLO 2: Improvement Plans and 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

19. 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.....)	Demonstrate logical argumentation, analysis, and synthesis skills.
20. 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) and provide specific details of the instrument (e.g. Exam 2, Course HLSA 3800; Final Group Project, HIST 3900)	Targeted questions from Chapter 07 assignment in MATH 3040
21. 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%
22. SLO 1: Provide details for your target performance level established (i.e. accreditation requirement, past performance data, peer program review, etc)	Based on discussions with other department chairs about similar assessments, a target performance level of 70% was set as it was the level that is considered "passing".
23. 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%
24. SLO 3: Improvement Plans and 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

25. 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.
26. 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) and provide specific details of the instrument (e.g. Exam 2, Course HLSA 3800; Final Group Project, HIST 3900)	Research project with oral/written presentation in MATH 3207
27. 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%
28. SLO 1: Provide details for your target performance level established (i.e. accreditation requirement, past performance data, peer program review, etc)	This is a new assessment instrument for the department. It seems reasonable to set the target level at the "passing" grade of 70%. This also places this target level so that it is consistent with other SLO's. Adjustments will be made in the future if deemed necessary.
29. 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%
30. SLO 4: Improvement Plans and 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. The department will look into ways to improve written and oral communication skills for mathematics majors. This SLO will continue to be monitored.

Sampling

31. How many students participated in the assessment of these learning outcomes, in this program, for this assessment cycle at this location?	23
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Open Box for Assessment Comments

32. In this field, please document the overall use of assessment results for continuous improvement (consider the past, present, and future and specifically address these in your narrative).	<p>The Curriculum Committee of the Department of Mathematics & Statistics recently updated the SLO's of the department and this is the first assessment cycle using the new SLO's. The SLO's better reflect the outcomes expected of Mathematics Majors. For SLO 4, a new assessment instrument was put in place – a research project with oral and written requirements.</p> <p>All SLO's were met, but with SLO 4 (communicating mathematical ideas), it appears that there is room for improvement. This will be a focus of the department in the upcoming year.</p>
33. Optional Open Text Box For Assessment Comments:	<p>The number of students who participated in the assessment differed for each SLO instrument. The number of students who participated for SLO 1 is 22. The number of students who participated for SLO 2 is 23. The number of students who participated for SLO 3 is 4. The number of students who participated for SLO 4 is 7.</p>
34. If the COVID-19 pandemic impacted this assessment cycle, please provide specific details below.	