

Bachelor of Sciences with a major in Mathematics, Macon

Semester reporting: Spring Semester 2020

Academic Program Assessment

Program and Assessment Report Information

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In which college or school is this program located?	Computing
Program Type:	Undergraduate
For which program is this assessment being submitted?	Bachelor of Sciences with a major in Mathematics
Reporting Cycle:	Annual Reporting Cycle
Which semester were the data collected and analyzed?	Spring Semester 2020
For which campus are these assessments being submitted?	Macon
Approximately how many students are in this program at this location?	57

Student Learning Outcomes

SLO 1

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 in the Bachelor's program will be able to correctly perform mathematical operations in the areas of Algebra and Trigonometry, Differentiation, and Integration.
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)	Average of three targeted exam questions on assignments in MATH 2252 (Calculus II)
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% or higher
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)	75
SLO 1: Evidence of changes based on an analysis of the results: What changes were implemented, if applicable, based on an analysis of the students' performance on this Student Learning Outcome? (Evidence of the improvement must be kept and filed in the department or academic unit including but not limited to: changes in exam questions, reading assignments, syllabi, course instruction materials or assignments. Both old versions and new versions should be kept on file for 10 years. Major changes to curriculum must go through the Academic Affairs process.)	None

Student Learning Outcomes

SLO 2

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 in the Bachelor's program will be able to construct and explain elementary mathematical proofs.
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 3040 (Bridge to Higher Mathematics)
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% or higher
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)	44.4
SLO 2: Evidence of changes based on an analysis of the results: What changes were implemented, if applicable, based on an analysis of the students' performance on this Student Learning Outcome? (Evidence of the improvement must be kept and filed in the department or academic unit including but not limited to: changes in exam questions, reading assignments, syllabi, course instruction materials or assignments. Both old versions and new versions should be kept on file for 10 years. Major changes to curriculum must go through the Academic Affairs process.)	There are several contributing factors to the low percentage of students demonstrating mastery. Performance is based on a single assignment in a course, which may not have captured students' mastery of the outcome adequately. The instructor did not follow the protocol for the assessment instrument, and it was the instructor's first time teaching the subject (instructor is no longer employed with MGA.) Measures have taken place within the department, including a change in leadership, to ensure better alignment between faculty expertise and the courses for which they are assigned and faculty will be trained on assessment protocol.

Student Learning Outcomes

SLO 3

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 in the Bachelor's program will be able to apply mathematics towards real-world problems.
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 MATH 4621 (Mathematical Statistics I)
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% or higher
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)	100
SLO 3: Evidence of changes based on an analysis of the results: What changes were implemented, if applicable, based on an analysis of the students' performance on this Student Learning Outcome? (Evidence of the improvement must be kept and filed in the department or academic unit including but not limited to: changes in exam questions, reading assignments, syllabi, course instruction materials or assignments. Both old versions and new versions should be kept on file for 10 years. Major changes to curriculum must go through the Academic Affairs process.)	None

Student Learning Outcomes

SLO 4

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 in the Bachelor's program will be able to communicate mathematically.
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 (Linear Algebra)
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% or higher
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)	90
SLO 4: Evidence of changes based on an analysis of the results: What changes were implemented, if applicable, based on an analysis of the students' performance on this Student Learning Outcome? (Evidence of the improvement must be kept and filed in the department or academic unit including but not limited to: changes in exam questions, reading assignments, syllabi, course instruction materials or assignments. Both old versions and new versions should be kept on file for 10 years. Major changes to curriculum must go through the Academic Affairs process.)	None

Sampling

How many students participated in the assessment of these learning outcomes, in this program, for this assessment cycle at this location?	18
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Open Box for Assessment Comments

Open Text Box For Assessment Comments:	In response to changes in the B.S. Mathematics curriculum, new SLO's and assessment instruments will be reflected in the upcoming assessment cycle.
If the COVID-19 pandemic impacted this assessment cycle, please provide specific details below. (Also submit any COVID-19 correspondence from your accrediting body to assessment@mga.edu when you submit this form with your Department name and program in the subject line.)	

