# Bachelor of Science, Biology, Cochran

Semester reporting: Spring Semester 2022

Reporting cycle: Annual Reporting Cycle

#### **Academic Program Assessment Report Information**

Prepared on: 6/29/2022 4:22:48 PM	Prepared by: dawn.sherry@mga.edu		
Email address of person responsible for this	dawn.sherry@mga.edu		
report:			
In which college or school is this program	Health and Natural Sciences		
located?			
Program Type:	Undergraduate		
Approximately how many students are in this	39		
program at this location?			

# **Student Learning Outcomes**

# SLO1

SLO 1: What is the first Student Learning	Biology majors should be able to demonstrate
Outcome for this academic program? Student	knowledge of the processes of evolution.
Learning Outcomes should be stated in	
measurable terms (i.e. students will be able	
to)	
SLO 1: What instrument (assessment type) was	Final Exam BIOL 3211
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) is learning outcome?	
SLO 1: What target performance level would a	70 % students will correctly answer 5 final exam
student need to achieve on the assessment	questions in BIOL 3211 Evolution course.
instrument to demonstrate mastery of this	
learning outcome? (I.e. 80% of all students will	
earn an average grade of 75% or better on)	
SLO 1: Provide details for your target	Alignment with core concepts outlined in the
performance level established (i.e. accreditation	Vision & Change report on undergraduate biology
requirement, past performance data, peer	education by the American Association for the
program review, etc.)	Advancement of Science.
SLO 1: During this assessment cycle, what	0
percent of the students who participated in this	
assessment met the target performance level	
and demonstrated mastery of this learning	
outcome.	
SLO 1: Improvement Plans and Evidence of	This SLO for Cochran is only evaluated every
changes based on an analysis of the results:	other year. Course was not offered in Fall
What changes were implemented based on an	2021/Spring 2022 in Cochran due to low
analysis of the students' performance on this	enrollment. The course will be offered next
Student Learning Outcome? (Evidence of the	academic year. While the course was not offered
improvement must be kept and filed in the	in Cochran due to low enrollment, it was offered
department or academic unit including but not	during this cycle in Macon.
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.)	

CLO 2: What is the second Student Learning	Diology majors should be able to demonstrate
SLO 2: What is the second Student Learning	Biology majors should be able to demonstrate
Outcome for this academic program? Student	knowledge of the differences and commonalities
Learning Outcomes should be stated in	between prokaryotic and eukaryotic cells.
measurable terms (i.e. students will be able	
to)	
SLO 2: What instrument (assessment type) was	Final Exam BIOL 3104K.
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) is learning outcome?	
SLO 2: What target performance level would a	70% of students will correctly answer 5 questions
student need to achieve on the assessment	on the BIOL 3104K Cell Biology final exam.
instrument to demonstrate mastery of this	
learning outcome? (I.e. 80% of all students will	
earn an average grade of 75% or better on)	
SLO 2: Provide details for your target	Alignment with core concepts outlined in the
performance level established (i.e. accreditation	Vision & Change report on undergraduate biology
requirement, past performance data, peer	education by the American Association for the
program review, etc.)	Advancement of Science.
SLO 2: During this assessment cycle, what	91%
percent of the students who participated in this	
assessment met the target performance level	
and demonstrated mastery of this learning	
outcome.	
SLO 2: Improvement Plans and Evidence of	Target was met, no changes are necessary at this
changes based on an analysis of the results:	time.
What changes were implemented 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.)	
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SLO 3: What is the third Student Learning Outcome for this academic program? Student	Biology majors will be able to identify, interpret, model and analyze genetic material.
Learning Outcomes should be stated in	model and analyze genetic material
measurable terms (i.e. students will be able	
to)	
SLO 3: What instrument (assessment type) was	Final Exam BIOL 4110K.
used to measure student's ability to	Timal Exam Biol 122000
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) is learning outcome?	
SLO 3: What target performance level would a	70% of students will correctly answer 5 questions
student need to achieve on the assessment	on the BIOL 4110 Genetics Exam.
instrument to demonstrate mastery of this	
learning outcome? (I.e. 80% of all students will	
earn an average grade of 75% or better on)	
SLO 3: Provide details for your target	Alignment with core concepts outlined in the
performance level established (i.e. accreditation	Vision & Change report on undergraduate biology
requirement, past performance data, peer	education by the American Association for the
program review, etc.)	Advancement of Science.
SLO 3: During this assessment cycle, what	70%
percent of the students who participated in this	
assessment met the target performance level	
and demonstrated mastery of this learning	
outcome.	
SLO 3: Improvement Plans and Evidence of	Target was met, no changes are necessary at this
changes based on an analysis of the results:	time.
What changes were implemented 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.)	

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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)	Biology majors should be able to demonstrate knowledge of diversity and speciation of living things.
SLO 4: What instrument (assessment type) was	Final Exam BIOL 3510K, 3520K, 3360K.Biology
used to measure student's ability to	majors should be able to demonstrate knowledge
demonstrate mastery of this learning outcome?	of diversity and speciation of living things.
(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) is learning outcome?	
SLO 4: What target performance level would a	70% of students will correctly answer 5 final
student need to achieve on the assessment	exam questions in one of the following courses
instrument to demonstrate mastery of this	BIOL 3510K Invertebrate Zoology, BIOL 3520K
learning outcome? (I.e. 80% of all students will	Vertebrate Zoology or BIOL 3360K Plant Biology.
earn an average grade of 75% or better on)	
SLO 4: Provide details for your target	Alignment with core concepts outlined in the
performance level established (i.e. accreditation	Vision & Change report on undergraduate biology
requirement, past performance data, peer	education by the American Association for the
program review, etc.)	Advancement of Science.
SLO 4: During this assessment cycle, what	80%
percent of the students who participated in this	
assessment met the target performance level	
and demonstrated mastery of this learning	
outcome.	
SLO 4: Improvement Plans and Evidence of	Target was met, no changes are necessary at this
changes based on an analysis of the results:	time.
What changes were implemented 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.)	

### Sampling

How many students participated in the	14
assessment of these learning outcomes, in this	
program, for this assessment cycle at this	
location?	

#### **Open Box for Assessment Comments**

Open box for Assessment comments	,		
Required: In this field, please document the	The current assessments, which have been in		
overall use of assessment results for continuous	place since its inception, provide useful		
improvement (consider the past, present, and	information as to how well MGA biology majors		
future and specifically address these in your	understand core concepts in biology. Students in		
narrative).	this program are also successfully passing GRE,		
	MCAT and DAT exams, which speaks to the		
	excellent preparation the biology program at		
	MGA does for rigorous professional school		
	entrance exams. This past year, the Biology		
	faculty began reviewing upper level biology		
	curricula in Fall 2021-Spring 2022 to ensure that		
	the B.S. Biology program curricula is in alignment		
	with the goals and objectives outlined in Vision		
	and Change in Undergraduate Biology Education		
	report published by AAAS and NSF. At this time,		
	the team overseeing this curricula review has		
	surveyed faculty as to the topics and		
	competencies being covered in the upper level		
	courses (Fall 2021). Next steps will be to		
	summarize the survey results and to share these		
	results with faculty (Spring/Summer/Fall 2022).		
	We hope to discuss with faculty content areas or		
	competencies that may be receiving too much or		
	too little attention (Spring 2023). The information		
	from this survey can then be used to modify or		
	update assessments if necessary.		
Optional Open Text Box For Assessment	*The correct answer for #25 is: BIOL 3520K FA 21:		
Comments:	83%; BIOL 3510 SP 21: 76. Form will not allow		
	text.		
	**The B.S. Biology program has 5 Student		
	Learning Outcomes. This Google Doc only allows		
	for four. Below is the data for the 5th SLO-		
	Cochran campus.		
	SLO 5: Biology majors should be able to		
	communicate scientific information both written		
	and orally. This is assessed with a written, oral or		
	research project.		
	Students should score 70% or higher on this		
	project.		

	BIOL 4120 was not offered in Fall 2021/Spring 2022 in Cochran due to low enrollment. The course will be offered next academic year. While the course was not offered in Cochran due to low enrollment, it was offered during this cycle in Macon.
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.)	