*Q1.*GCU Academic Program Assessment Plan - Plan Updates

Please complete the program assessment plan. The format is similar to your previous plans, but is adapted to make fuller use of AEFIS. If you need assistance, please contact the <u>Office of Assessment</u>. You can enter data in this form at one time or return to the survey to complete, using the same computer and original link. Once you submit, that action is final. You will receive a copy of your submittal.

Be sure to review academic program outcomes for appropriate rigor (Bloom's taxonomy) and assessable results. Avoid vague or general statements that cannot be quantified or measured. This plan can cover a three- to five-year time frame.

Note 1: Graduate programs need only complete summative assessment data.

Note 2: If the program has more than 5 learning outcomes, you will be directed to part B of the survey to enter the information on the additional outcomes (up to 10 total).

The update of Academic Program Assessment Plans are due by September 30.

Please contact the Office of Institutional Assessment and Accreditation with any questions or for further guidance.

Last Name	Schaefer	
First Name	Beth]
Q3. Email address of pe	erson completing the report	
schaeferb@georgian.edu		
<i>Q4.</i> Program Name		
Mathematics		

Q5. School or Department

- School of Arts and Sciences
- School of Business and Digital Media

Q2. Person completing the report

 School of Education 	
HMH School of Nursing and Wellness	at GCU
O University Wide Program (name below	0
Q6. Email address and name of De	ean of School or Department Supervisor
Name of Dean/Supervisor	Mary Chinery
Email address of Dean/Supervisor	chinerym@georgian.edu
Q7. Level of Program	
Undergraduate Major	
Graduate-Masters	
Graduate-certificate only	
O Undergraduate-University wide	
other, please specify	
Q8. Assessment Plan for years	
3 years starting 2022	
4 years starting 2022	
5 years starting 2022	
Other	
Q9. Indicate the name of the major	r(s), minor(s), and the associated degree(s) for this academic program.
Major(s)	Mathematics
Degree(s)	BA
Minor(s)	Mathematics

Q10. State your learning outcomes (Up to five in this section, additional outcomes can be added to part B of the survey)



Learning Outcome (LO) 1 Students will perform, under program's core coursework		perties of mathematic	cal operations through as	signments and testing i	n the
	o) 2 solutions of real world and es through assignments, p				у
	D) 3 licate effectively orally and presentation and testing i			amwork through	
Learning Outcome (LC Students will use com with accuracy, be facil		visualize mathemation	cal graphs and functions, discriminate in the use o		
Learning Outcome (LC		3			
Q11. Related USLG-U stated above with the	•	_	•	orogram learninç	Mastery of a Defined Body of Knowledge at a Baccalaureate
	World	Practical Skills	Responsibility	Integrative Learning	Level
earning Outcome 1	✓				✓
earning Outcome 2					
earning Outcome 3				<u>~</u>	
earning Outcome 4 earning Outcome 5					
Q12. Related GSLG-(the associated GSLG This question was not displa	ò.	earning Goals	s. Align the learnir	ng outcomes sta	ted above with
Q13. Related BRIDGE This question was not display.		on Goals			
Q14. Related Accred your program outcome Learning Outcome (LC	e(s). (Example: Lea		_		•
Learning Outcome (LC	0) 2				

Learning Outcome (LO) 3

	Learning Outcome (LO) 4
	Learning Outcome (LO) 5
lap leas is m	Course Mapping. Program Courses and Experiential Learning <u>mapping</u> to Program Outcomes. <u>all</u> program courses to the program's learning outcomes here. List courses with short catalog name, i.e. EN10 e check to see if all program courses are mapped to at least one program outcome. If the program has more than 5 outcome apping will continue in part B. do students learn this? In what course(s) and/or co-curricular experience(s)?
✓	Learning Outcome (LO) 1 MA115, MA116, MA209, MA210, MA218, MA331, MA400, MA401
✓	Learning Outcome (LO) 2 MA115, MA116, MA209, MA215, MA321, MA331, CS123
✓	Learning Outcome (LO) 3 MA210, MA215, MA311, MA312, MA321, MA400, MA401
✓	Learning Outcome (LO) 4 MA115, MA116, MA209, MA331, CS123
	Learning Outcome (LO) 5
esi ave	mative Assessment will occur in gnate the selected course(s) from above mapping where evidence will be collected. These courses we a signature assignment aligned with your assessment plan. Choose up to two courses per outcome. o repeat courses.
✓	Learning Outcome (LO) 1
✓	MA115 Learning Outcome (LO) 2
✓	MA116 Learning Outcome (LO) 3
✓	MA210 Learning Outcome (LO) 4
	MA115 and CS123 Learning Outcome (LO) 5
J	
ame	Name the signature assignment aligned with formative assessment in the previous question. Give th e of the course and the assignment. Example: EN 490: Final Course Paper assessed with the GCU ng Rubric.

✓

Course 1/ LO1	Selected class assignments evaluated by rubric and content analysis		
Course 2/	LO1		
Course 1/	LO2	Embedded questions that measure student solutions of real-world problems, evaluated rubric and content analysis	t d
Course 2/	LO2		
✓ Course 1/	LO3	Selected class assignments evaluat by rubric and content analysis	
Course 2/	LO3		
Course 1/	LO4	In-class technology based assignment evaluated by a rubric	;
Course 2/	LO4	In-class technology based assignment evaluated by a rubric	;
Course 1/	LO5		
Course 2/	105		

Q18.

Summative Assessment will occur in.....

Designate the selected course(s) from above mapping where evidence will be collected. These courses will have a signature assignment aligned with your assessment plan. Choose up to two courses per outcome. Try not to repeat courses.

✓	Learning Outcome (LO) 1
	MA401
✓	Learning Outcome (LO) 2
	MA331
✓	Learning Outcome (LO) 3
	MA401 and MA312
✓	Learning Outcome (LO) 4
	MA331
	Learning Outcome (LO) 5
_	

Q19. Name the signature assignment aligned with summative assessment in the previous question. Give the name of the course and the assignment. Example: EN 490: Final Course Paper assessed with the GCU Writing Rubric.

Course 1/ LO1 Final exam evaluated related to program content using Departmental approved rubric

Course 2/ LC	1	
✓ Course 1/ LC	Final exam evaluated related to program content using Departmental approved rubric	
Course 2/ LC	2	
✓ Course 1/ LC	Final exam evaluated related to program content using Departmental approved rubric	
	Final exam evaluated related to program content using Departmental approved rubric	
✓ Course 1/ LC	Final exam evaluated related to program content using Departmental approved rubric	
Course 2/ LC	14	
Course 1/ LC	5	
Course 2/ LC	95	
did not meet e	xpectations, betwee	tory achievement will be based on assignment grading: below 70: en 70-85: meets expectations, at and above 85: exceeds r program guidelines?
○ Yes		
No		
Q21. What is yo	our preference for ass	signment percentages for expected results?
O Does not me	et expectations	
Meets expect	ations 75%	
Exceeds exp	ectations	
assessment of grades, course	learning outcomes? I pass rates, etc. What	indirect evidence will you collect for your program's formative Indirect evidence can include: student surveys (course feedback), course t are your benchmarks for this data? (Ex. 70% of students complete score of 4.3 out of 5)
Formative Ass	sessment	

Benchmark for Evidence 1

Benchmark for Evidence 2

LO 1	DFW Rates	Below 15%		
LO2	DFW Rates	Below 15%		
LO3	DFW Rates	Below 15%		
LO4	DFW Rates	Below 15%		
LO5				
1				
Q23. Assessment Protoco assessment of learning out grades, course pass rates, (comes? Indirect evid	ence can include: stud		
Summative Assessment				
Summative Assessment	Indirect Evidence 1	Benchmark for Evidence 1	Indirect Evidence 2	Benchmark for Evidence 2
Summative Assessment	Indirect Evidence 1 DFW Rates		Indirect Evidence 2	
		1	Indirect Evidence 2	
LO 1	DFW Rates	1 Below 15%	Indirect Evidence 2	
LO 1 LO2	DFW Rates DFW Rates	1 Below 15% Below 15%	Indirect Evidence 2	
LO 1 LO2 LO3	DFW Rates DFW Rates DFW Rates	1 Below 15% Below 15% Below 15%	Indirect Evidence 2	
LO 1 LO2 LO3 LO4	DFW Rates DFW Rates DFW Rates	1 Below 15% Below 15% Below 15%	Indirect Evidence 2	

Q24. **Program Assessment Time Frame:** Time Frame for Assessing the outcome. Indicate the year of the plan where the data will be analyzed. Also indicate if data will be collected annually. This is helpful for gathering assessment artifacts from small classes or groups.

	Year 1 of Plan	Year 2 of Plan	Year 3 of Plan	Year 4 of Plan	Year 5 of Plan	Data collected annually
Learning Outcome 1	✓					✓
Learning Outcome 2		~				✓
Learning Outcome 3			✓			✓
Learning Outcome 4				✓		✓
Learning Outcome 5						

Q25. Number of program learning outcomes.

5 o	r less
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omore than 5

Q26. State your additional learning outcomes

This question was not displayed to the respondent.

Q27. Related USLG-Undergraduate Student Learning Goals. Align the program learning outcomes stated above with the associated USLG.

This question was not displayed to the respondent.

Q28. Related GSLG-Graduate Student Learning Goals. Align the learning outcomes stated above with the associated GSLG.

This question was not displayed to the respondent.

Q29. Related BRIDGE-General Education Goals

This question was not displayed to the respondent.

Q30. Related Accreditation Standard (if applicable) State the standard/goal and check the alignment with your program outcome(s). (Example: Learning Outcome (LO) 1: Text entry: NJSPEL Standard 1)

This question was not displayed to the respondent.

Q31. **Course Mapping**. Program Courses and Experiential Learning <u>mapping</u> to Program Outcomes. Continue to map <u>all</u> program courses to the program's learning outcomes here. List courses with short catalog name, i.e. EN101. Please check to see if all program courses are mapped to at least one program outcome.

How do students learn this? In what course(s) and/or co-curricular experience(s)?

This question was not displayed to the respondent.

032.

Formative Assessment will occur in.....

Designate the selected course(s) from above mapping where evidence will be collected. These courses will have a signature assignment aligned with your assessment plan. Choose up to two courses per outcome. Try not to repeat courses.

This question was not displayed to the respondent.

Q33. Name the signature assignment aligned with formative assessment in the previous question. Give the name of the course and the assignment. Example: EN 490: Final Course Paper assessed with the GCU Writing Rubric.

This question was not displayed to the respondent.

034.

Summative Assessment will occur in.....

Designate the selected course(s) from above mapping where evidence will be collected. These courses will have a signature assignment aligned with your assessment plan. Choose up to two courses per outcome. Try not to repeat courses.

This question was not displayed to the respondent.

Q35. Name the signature assignment aligned with summative assessment in the previous question. Give the name of the course and the assignment. Example: EN 490: Final Course Paper assessed with the GCU Writing Rubric.

This question was not displayed to the respondent.

Q36. **Assessment Protocol.** What <u>indirect</u> evidence will you collect for your program's formative assessment of learning outcomes? Indirect evidence can include: student surveys (course feedback), course grades, course pass rates, etc. What are your benchmarks for this data? (Ex. 70% of students complete course feedback with resulting mean score of 4.3 out of 5)

Formative Assessment

This question was not displayed to the respondent.

Q37. **Assessment Protocol**. What <u>indirect</u> evidence will you collect for your program's summative assessment of learning outcomes? Indirect evidence can include: student surveys (course feedback), course grades, course pass rates, graduation rates, etc.

Summative Assessment

This question was not displayed to the respondent.

Q38. Program Assessment Time Frame: Time Frame for Assessing the outcome. Indicate the year of the plan where the data will be analyzed. Also indicate if data will be collected annually. This is helpful for gathering assessment artifacts from small classes or groups.

This question was not displayed to the respondent.

