

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 [Office of Assessment](#). 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.

Q2. Person completing the report

Last Name

Bergman

First Name

Carolyn

Q3. Email address of person completing the report

cbergman@georgian.edu

Q4. Program Name

Biology

Q5. School or Department

School of Arts and Sciences

School of Business and Digital Media

- School of Education
- HMH School of Nursing and Wellness at GCU
- University Wide Program (name below)

Q6. Email address and name of Dean of School or Department Supervisor

Name of Dean/Supervisor

Email address of Dean/Supervisor

Q7. Level of Program

- Undergraduate Major
- Graduate-Masters
- Graduate-certificate only
- 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(s), minor(s), and the associated degree(s) for this academic program.

Major(s)

Degree(s)

Minor(s)

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

- Learning Outcome (LO) 2
Students will learn to use basic biology laboratory field methods, tools and techniques.
- Learning Outcome (LO) 3
Students will effectively read and critically evaluate scientific literature as evidenced by rubric driven analysis of signature assignments in BI201 (Biological Literature) and BI444 (Senior Seminar).
- Learning Outcome (LO) 4
Students will learn to communicate biological information effectively as evidenced by 4a: rubric driven analysis of oral presentations in BI120 (Biological Diversity) and BI444 (Senior Seminar), and 4b: rubric driven analysis of formal written reports prepared in BI201 (Biological Literature) and upper-level biology elective courses.
- Learning Outcome (LO) 5
Students will integrate personal and ethical values within the study of biology as evidenced by students' responses on the departmentally generated values survey.

Q11. Related USLG-Undergraduate Student Learning Goals. Align the program learning outcomes stated above with the associated USLG.

	Foundational Knowledge of Human Cultures and the Physical and Natural World	Intellectual and Practical Skills	Personal and Social Responsibility	Integrative Learning	Mastery of a Defined Body of Knowledge at a Baccalaureate Level
Learning Outcome 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Learning Outcome 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Learning Outcome 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Learning Outcome 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Learning Outcome 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q12. Related GSLG-Graduate Student Learning Goals. Align the learning outcomes stated above with the associated GSLG.

This question was not displayed to the respondent.

Q13. Related BRIDGE-General Education Goals

This question was not displayed to the respondent.

Q14. 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)

- Learning Outcome (LO) 1
- Learning Outcome (LO) 2
- Learning Outcome (LO) 3
- Learning Outcome (LO) 4

Learning Outcome (LO) 5

Q15. Course Mapping. Program Courses and Experiential Learning mapping to Program Outcomes. Map **all** 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. If the program has more than 5 outcomes, this mapping will continue in part B.

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

Learning Outcome (LO) 1

all courses in major

Learning Outcome (LO) 2

lab experiences in BI120, BI121, BI204, BI305, and biology electives with labs

Learning Outcome (LO) 3

all required biology courses, but a focus within BI201 and BI443/444

Learning Outcome (LO) 4

all courses in major

Learning Outcome (LO) 5

all courses in major

Q16.

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.

Learning Outcome (LO) 1

BI120 and BI121

Learning Outcome (LO) 2

BI121

Learning Outcome (LO) 3

BI1201

Learning Outcome (LO) 4

BI120 for oral and BI201 for written

Learning Outcome (LO) 5

BI201

Q17. 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.

Course 1/ LO1

BI120 cumulative portion of final exam

Course 2/ LO1

BI121 Cumulative portion of final exam

- Course 1/ LO2 BI121 Lab practical
- Course 2/ LO2
- Course 1/ LO3 BI201 Primary Paper analysis assignment
- Course 2/ LO3
- Course 1/ LO4 4a: BI120 Oral Presentation
- Course 2/ LO4 4b: BI201 Lab report
- Course 1/ LO5 BI201 Human Subjects Training
- Course 2/ LO5

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
BI443/444
- Learning Outcome (LO) 2
upper level biology electives and BI443/444
- Learning Outcome (LO) 3
BI443/444
- Learning Outcome (LO) 4
written: BI305 and oral: BI443/444
- Learning Outcome (LO) 5
no direct evidence

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 BI443/444 Student Exit Test (SET)
- Course 2/ LO1
- Course 1/ LO2 upper level courses with lab: Lab Practical
- Course 2/ LO2
- Course 1/ LO3 BI443/444 Primary Paper Summary and Analysis
- Course 2/ LO3
- Course 1/ LO4 BI305: Lab report
- Course 2/ LO4 BI443/444: Oral Presentation
- Course 1/ LO5

Q20. Direct Assessment: Satisfactory achievement will be based on assignment grading: below 70: did not meet expectations, between 70-85: meets expectations, at and above 85: exceeds expectations. Does this meet your program guidelines?

- Yes
- No

Q21. What is your preference for assignment percentages for expected results?

This question was not displayed to the respondent.

Q22. Assessment Protocol. What indirect 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

	Indirect Evidence 1	Benchmark for Evidence 1	Indirect Evidence 2	Benchmark for Evidence 2
LO 1	Overall grade distribution in BI120 and BI121	75% of students will earn a C+ or higher		
LO2	Senior Satisfaction Survey administered in BI443/444	75% of students will indicate confidence or high confidence for at least 70% of skills assessed in survey		
LO3	Grade distribution in BI201	75% of students will achieve a C+ or higher		
LO4				
LO5	Department Values Survey in BI120	no benchmark, will be compared to future survey		

Q23. Assessment Protocol. What indirect 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

	Indirect Evidence 1	Benchmark for Evidence 1	Indirect Evidence 2	Benchmark for Evidence 2
LO 1				

LO2				
LO3				
LO4				
LO5	Department Values Survey in BI443/444	Improvement of scores for 75% of items assessed compared to survey in BI120		

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Learning Outcome 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Learning Outcome 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Learning Outcome 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Learning Outcome 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Q25. Number of program learning outcomes.

- 5 or less
- more 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)

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Q31. Course Mapping. Program Courses and Experiential Learning mapping to Program Outcomes. Continue to map **all** 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)?

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Q32.

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.

Q34.

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 indirect 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 indirect 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.

Location Data

Location: ([39.8602](#), [-74.8247](#))

Source: GeoIP Estimation

