SAINT LOUIS UNIVERSITY.

Program-Level Assessment: Annual Report

Program: Chemical Biology	Department: Chemistry
Degree or Certificate Level: MA	College/School: Arts & Sciences
Date (Month/Year): June 2020	Primary Assessment Contact: Marvin Meyers

In what year was the data upon which this report is based collected? 2019-2020

In what year was the program's assessment plan most recently reviewed/updated? New program approved 2018

1. Student Learning Outcomes

Which of the program's student learning outcomes were assessed in this annual assessment cycle?

Learning outcomes highlighted in **BOLD font** were assessed in this annual cycle.

SLU graduates with a MS degree in Chemical Biology will be able to:

Outcome 1: Assess relevant literature in chemical biology

Outcome 2: Apply chemistry principles to biology.

Outcome 3: Articulate arguments or explanations in both oral and written forms.

Outcome 4: Evidence scholarly and professional integrity in chemical biology.

This is the first year for the program. In Year 1, learning outcomes 1 and 2 are evaluated. In Year 2, outcomes 3 and 4 are evaluated. In Year 3, we will return to learning outcomes 1 and 2.

2. Assessment Methods: Student Artifacts

Which student artifacts were used to determine if students achieved this outcome? Please identify the course(s) in which these artifacts were collected. Clarify if any such courses were offered a) online, b) at the Madrid campus, or c) at any other off-campus location.

No data was collected as there are currently no students in the MA program.

3. Assessment Methods: Evaluation Process

What process was used to evaluate the student artifacts, and by whom? Please identify the tools(s) (e.g., a rubric) used in the process and include them in/with this report.

N/A

4. Data/Results

What were the results of the assessment of the learning outcomes? Please be specific. Does achievement differ by teaching modality (e.g., online vs. face-to-face) or on-ground location (e.g., STL campus, Madrid campus, other off-campus site)?

N/A

5. Findings: Interpretations & Conclusions

What have you learned from these results? What does the data tell you?

N/A

6. Closing the Loop: Dissemination and Use of Current Assessment Findings

A. When and how did your program faculty share and discuss these results and findings from this cycle of assessment?

N/A

B. How specifically have you decided to use findings to improve teaching and learning in your program? For example, perhaps you've initiated one or more of the following:

Changes to the Curriculum or Pedagogies	• Course content • Teaching techniques • Improvements in technology • Prerequisites	• Course sequence • New courses • Deletion of courses • Changes in frequency or scheduling of course offerings
Changes to the Assessment Plan	• Student learning outcomes • Student artifacts collected • Evaluation process	• Evaluation tools (e.g., rubrics) • Data collection methods • Frequency of data collection

Please describe the actions you are taking as a result of the findings.

As this is our first year assessing these outcomes using these metrics, we will repeat Year 1 assessments next year.

If no changes are being made, please explain why.

7. Closing the Loop: Review of Previous Assessment Findings and Changes

A. What is at least one change your program has implemented in recent years as a result of assessment data?

N/A – this is the first year of the program.

B. How has this change/have these changes been assessed?

C. What were the findings of the assessment?

D. How do you plan to (continue to) use this information moving forward?

IMPORTANT: Please submit any assessment tools and/or revised/updated assessment plans along with this report.

Course Performance - MA Students
Academic Year 2019-2020
Program Year 1

Assessment Cycle: Year 1 **NOTE: There were no students enrolled in the MA program this year**

Year 1: Learning outcomes 1 and 2
Year 2: Learning outcomes 3 and 4
Year 3: Restart cycle

Outcome 1: Assess relevant literature in chemical biology							
Data Source	>90% - Exceeds Expectations	70 - 89% - Meets Expectations	65 - 69% - Approaching Expectations	<65% - Not meeting expectations	Total	Assessement	Notes
CHEB 5630 rubric							
CHEM 5470 rubric							

Outcome 2: Apply chemistry principles to biology.							
Data Source	>90% - Exceeds Expectations	70 - 89% - Meets Expectations	65 - 69% - Approaching Expectations	<65% - Not meeting expectations	Total		Notes
CHEB 5630 exam Qs							
CHEM 5470 exam Qs							

Outcome 3: Articulate arguments or explanations in both oral and written forms.							
Data Source	>90% - Exceeds Expectations	70 - 89% - Meets Expectations	65 - 69% - Approaching Expectations	<65% - Not meeting expectations	Total		Notes
MA oral exam rubric							

Outcome 4: Evidence scholarly and professional integrity in chemical biology.							
Data Source	>90% - Exceeds Expectations	70 - 89% - Meets Expectations	65 - 69% - Approaching Expectations	<65% - Not meeting expectations	Total		Notes
MA oral exam rubric							