ProgramLevelAssessment: Annual Report

ProgramName (no acronyms)Chemical Biology & Department: Chemistry

Pharmacology

Degreeor CertificateLevel:BS College/SchoolCollege of Arts & Sciences

Date (Month/Year)August 202 AssessmenContact:Chris Arnatt

In what year was the data upon which this report is based collec 2022-2023

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

Program assessment feedback 2023

StudentLearning Outcomes

Which of the program's student learning outcomes were assessed is annual assessment cycle lease list the full, completelearning outcome statements and not just numbers, e.g., Outcomes 1 and 2.)

SLU graduates with a BS degree in Chemical Biology & Pharmacology will be able to:

- 1. Explain major principles in organic chemistry, biochemistry, and pharmacology
- 2. Conduct laboratory techniques and experiments safely
- 3. Analyze quantitative data
- 4. Apply chemistry principles to biology
- 5. Articulate scientific results in both oral and written forms

Learning outcomes highlighted in BOLD foretre assessed in this annual cycle.

This is the forthyear for the program. In Year 1, learning outcomes 1 and 2 were evaluated. In Year 2, outcomes 3 and 4were e.7 556rus52.2 anedus52.2 . 143 (n52.2 ()1076 (Y)1076 eru)2.7 r3s,127.9 (oa)-367 (u163.1 tc)13.1

Data was collected by course instructors and is summarized on the attached spreadsheet

Data wasanalyzed by the Chemical Biology Program Coordinatoreported to department faculty for feedback

4. Data/Results

What were the results of the assessment of the arning outcom(s)? Please be specifico a achievement diffeby teaching modality(e.g., online vs. factoriace) or on-ground location (e.g., STL campus, Madrid campus, other off campus site)

For Outcome 1:3 out of 4 students exceeded expectations and 1 out of 4 students met expectations 2440. 2 out of 5 students exceeded expectations, 2 outage (a) (y)]TJ eJ 7]TJ eJ 7]TJ eJ 7]TJ eJ 7]TJ eJ 7]TJ -0.01 (,)2 (2)-1.8 (I)6 (u)-ce

Generally speaking, there are no major concerns gliketh~95% of our students are meeting or exceeding expectations.

7.	Closing the L	oop: Review	of Previo Assessment	Findings and	Changes

A. What is at leasone change youprogramhas implemented in recent years as a result of assessment data?

No specific changes to the program have been made as this is orfortheyear of the program

Е	3. How has this changleave these changelseen assessed?	o tc ths thnge cy te	n a
	n/a		

Course Performance - BS Students Academic Year 2022-2023 Program Year 4

Assessment Cycle: Year 3

Year 1: Learning outcomes 1 and 2

Year 2: Learning outcomes 3 and 4

Year 3: Learning outcome 5

Year 4: Learning outcomes 1 and 2

Outcome 1: Explain major principles in organic chemistry, biochemistry, and pharmacology							
Data Source	>90% - Exceeds Expectations	70 - 89% - Meets Expectations	65 - 69% - Approaching Expectations	<65% - Not meeting expectations	Total	Assessement	Notes
CHEM 2440 Organic Chem	3	1			4		Taken from Spring 2023
CHEM 4620 Biochemistry	2	2		1	5		Taken from Spring 2023
CHEM 4470 Med Chem	1	5			6		Taken from Spring 2023
PPY 4410 Molec Pharm	4	1			5		Taken from Spring 2023

Outcome 2: Conduct laboratory						
Data Source	>90% - Exceeds Expectations	70 - 89% - Meets Expectations	65 - 69% - Approaching Expectations	<65% - Not meeting expectations	Total	Notes
CHEM 2445 Org Chem 2 Lab	1	4			5	Taken from Spring 2023
CHEM 4625 Biochem 2 Lab	2	2			4	Taken from Spring 2023
CHEB 3970 Undergrad Research	12	1	1		14	Taken from Fall 2022 and Spring 2023