## ASSESSMENT PLAN: BS Biochemistry

## Date Updated: 12/07/2021

## PROGRAM MISSION

CSUEB Missions, Commitments, and ILOs, 2012

## PROGRAM LEARNING OUTCOMES (PLOs)

Students graduating with a BS in Biochemistry will be able to:

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PLO 1	Demonstrate knowledge in the various area of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.	
PLO2	Use quantitative reasoning to analyze and solve chemical problems and evaluate chemical data.	
PLO3	Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.	
PLO 4	Design, carry out, record and analyze the results of chemical experiments	
PLO 5	Communicate chemical or biochemical issues clearly.	

10 Time (which semester(s))	

Specialized 6 [eUb/]`W

	based on data collection
7. Assessment Instrument	Exams or laboratory reports
8 How data will be reported	CgS`f[fSf[hWkdWad`will reflect the bdabadt[a`aXefgVWfe[`that attain different levels of mastery (#Ž, 5 is full masteryfi
9 Responsible person(s)	5agdeW/efdgUfadel3eeWe_WfDWb/
10 Time (which semester(s))	85 <sup>^</sup> \$' \$4, Spring 2025
11. Ways of dosing the loop	;`fWM S^SeeWee_Wf aXresults and planning to address the shortcomings
Year 5: 2025-2026	
1. Which PLO(s) to assess	PLO 3
2 Is it aligned to an ILO?	Yes
3 If yes, list ILO	Specialized Discipline
4 Course name and number	CHEM 332 Organic Chemistry II CHEM 443 Biochemistry Lab I 5: 7? 88&4 [aUZW [efck > ST;;
5 SLO from course	Safely carry out standard laboratory techniques for the purification of organic compounds
6 Assessment activity	Parsing of Safety Data Sheet (SDS) and performing the experimental techniques
7. Assessment Instrument	Laboratory assignments and Laboratory Report rubric
8 How data will be reported	Qualitative, reflective assessment of laboratory safety and performance
9 Responsible person(s)	Course Instructors, Assessment Rep
10 Time (which semester(s))	Fall 2025, Spring 2026
11. Ways of dosing the loop	Internal assessment of results with planning to address shortcomings