

level	bachelors
program	BS-BCHM-4
If not found, list here:	
AU or program	
authority	biochemistry steering
constructed by	committee (from BIO, CHCM, and PHVQ)
date	9-Jan-26
program assessment	Andy Howard
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Learning Objectives	PLO #1a	Apply the biochemistry core concept: Energy is required by and transformed in biological systems.
	PLO #1b	Apply the biochemistry core concept: Macromolecular structure determines function and regulation.
	PLO #1c	Apply the biochemistry core concept: Information storage and flow are dynamic and interactive.
	PLO #1d	Apply the biochemistry core concept: Discovery requires objective measurement, quantitative analysis, and clear communication.
	PLO #2	Explain the role of evolution and homeostasis in shaping the form and function of biological molecules and organisms.
	PLO #3	Perform safe, ethical, and reproducible biochemistry experiments; maintain accurate records; analyze and interpret quantitative data to address biochemical questions.
	PLO #4	Search, evaluate, and synthesize primary literature and database resources related to biochemistry.
	PLO #7	Specialization learning objectives (Pre-health, Chemistry, Computation, Biophysics).
	PLO #5	Clearly communicate about science in oral and written forms. (Assessed at the university level.)

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

1. Pre-health	2. Chemistry	3. Computation	4. Biophysics
Students will demonstrate an understanding of the role and impact of biochemical systems in health and medicine.	Students will demonstrate the ability to apply quantitative analytical chemistry methods.	Students will demonstrate the ability to apply computational tools to the study of biochemical macromolecules and systems.	Students will demonstrate an understanding of the physical basis of the structure and function of biochemical macromolecules

Year	All LOs must be assessed in some year for a complete plan	Data
AY26-27	We will collect data on PLOs 1a & 2.	We will collect data on PLOs
AY27-28	We will propose continuous improvement based on university-level data on PLOs 5 and 6 and collect data on PLOs 1a, 1b, 2, & 3.	1a & 2. We will propose continuous improvement based on
AY28-29	We will assess PLOs 1a & 2 and collect data on PLOs 1b, 1c, 3, & 4.	1a, 1b, 2, & 3. We will assess PLOs 1a & 2 and collect data on PLOs
AY29-30	We will assess PLOs 1b and PLO 3 and collect data on PLOs 1c, 1d, 4, & 7.	1b, 1c, 3, & 4. We will assess PLOs 1b and PLO 3 and collect data on PLOs
AY30-31	We will assess PLOs 1c and PLO 4, and collect data on PLOs 1a, 1d, 2, & 7.	1c, 1d, 4, & 7. We will assess PLOs 1c and PLO 4, and collect data on PLOs
AY31-32	We will assess PLO 1d and PLO 7, propose continuous improvement based on university-level data on PLOs 5 and 6, and collect data on PLOs 1a, 1b, 2, & 3.	1a, 1d, 2, & 7. We will assess PLO 1d and PLO 7, propose continuous
AY32-33	We will assess PLOs 1a & 2 and collect data on PLOs 1b, 1c, 3, & 4.	1a, 1b, 2, & 3. We will assess PLOs 1a & 2 and collect data on PLOs
AY33-34	We will assess PLOs 1b and PLO 3 and collect data on PLOs 1c, 1d, 4, & 7.	1b, 1c, 3, & 4. We will assess PLOs 1b and PLO 3 and collect data on PLOs
AY34-35	We will assess PLOs 1c and PLO 4 and collect data on PLOs 1a, 1d, 2, & 7.	1c, 1d, 4, & 7. We will assess PLOs 1c and PLO 4 and collect data on PLOs

Describe Assessment Report Dissemination and Continuous Improvement Plans

Because the program is small, assessment artifacts will be collected over two academic years before analysis to ensure a sufficient sample size. Data for PLOs 1a-1d will be collected in parallel with PLOs 2, 3, 4, and 7. Artifacts will be collected by the Program Assessment Coordinator (PAC). At the end of each two-year collection window, the PAC will analyze results and draft a Program Assessment Report with recommended continuous-improvement actions. The draft report will be reviewed by the Biochemistry Steering Committee and then finalized and disseminated to related academic units. University-level assessment results for PLO 5 (communication) and PLO 6 (teamwork) will be reviewed every four years and considered in program-level continuous improvement.