

BS Chemistry & Biochemistry (Physical Sciences) Program Learning Goals and Outcomes

PROGRAM LEARNING GOAL	PROGRAM LEARNING OUTCOME
<p>Learning Goal 1 Students will demonstrate an understanding and appreciation of the nature of science.</p>	<p>Learning Outcome 1.1 Students will know the fundamental facts, principles, and concepts of the discipline.</p>
	<p>Learning Outcome 1.2 Students will be able to utilize appropriate technology and instruments to solve problems.</p>
	<p>Learning Outcome 1.3 Students will be able to effectively employ technical materials in their coursework and research.</p>
	<p>Learning Outcome 1.4 Students will follow ethical guidelines for their discipline, in particular, the Chemist's Code of Conduct.</p>
	<p>Learning Outcome 1.5 Students will be able to apply the scientific method.</p>
<p>Learning Goal 2 The student will reason scientifically and mathematically.</p>	<p>Learning Outcome 2.1 Students will be able to distinguish between valid and invalid results.</p>
	<p>Learning Outcome 2.2 Students will be able to solve problems in context.</p>
	<p>Learning Outcome 2.3 Students will be able to derive and balance chemical equations and common formulas.</p>

PROGRAM LEARNING GOAL	PROGRAM LEARNING OUTCOME
<p>Learning Goal 3 Students will be able to communicate effectively.</p>	<p>Learning Outcome 3.1 Students will be able to interpret and display data.</p>
	<p>Learning Outcome 3.2 Students will be able to summarize scientific and mathematical concepts for a general audience.</p>
	<p>Learning Outcome 3.3 Students will be able to summarize and support arguments in the language of the discipline.</p>
	<p>Learning Outcome 3.4 Students will be able to communicate effectively in oral form.</p>