



BS Biological Sciences Program Learning Goals and Outcomes

PROGRAM LEARNING GOAL	PROGRAM LEARNING OUTCOME
Learning Goal 1: Effective Scientific Communication skills	Learning Outcome 1.1: Oral Presentation skills: Present scientific data clearly and logically using correct/appropriate scientific terminology.
	Learning Outcome 1.2: Written skills: Prepare a well-written Biology related report based on the scientific research format (Title, abstract, introduction, materials/methods, results, discussion, etc.).
Learning Goal 2: Ability to think independently and critically	Learning Outcome 2.1: Use scientific methods to acquire, analyze and apply scientific knowledge.
Learning Goal 3: Disciplinary knowledge	Learning Outcome 3.1: Evolution: Describe how living systems change through time.
	Learning Outcome 3.2: Interaction: Demonstrate how living systems interact with one another and their environment.
	Learning Outcome 3.3: Genetics/ reproduction: Demonstrate how living organisms are related to other generations by genetic material.
	Learning Outcome 3.4: Structure and Function: Demonstrate that structure determines function in biological systems.

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	<p>Learning Outcome 3.5: Develop common laboratory techniques and safety procedures</p>
<p>Learning Goal 4: Ethics and Values</p>	<p>Learning Outcome 4.1: Identify examples of plagiarism and demonstrate academic honesty.</p>
	<p>Learning Outcome 4.2: Demonstrate skepticism of existing ideas and openness to alternative ideas.</p>