

Academic Learning Compact

Degree Program: Biology (BS) (CIP Code 26.0101)

Intended Program Student Learning Outcomes	Direct and Indirect Measures	
	Direct Method of Assessment	Indirect Method of Assessment
<p>Outcome 1: [Communication Skills] Students will demonstrate communication skills which include - reading, speaking, writing, questioning, listening, and making presentations about issues related to life sciences and will be able to use modern technology tools to orally present seminars, reviews of journal articles or their research findings.</p>	<p><u>Direct Measure(s)</u> Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey</p>
<p>Outcome 2: [Critical Thinking Skills] Graduates will be able to demonstrate the ability to use critical and creative thinking in designing and conducting experiments, analyzing and evaluating results, in the synthesis of solutions and in engaging in relevant discussions in and in solving problems in the biological sciences.</p>	<p><u>Direct Measure(s)</u> Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey</p>
<p>Outcome 3: [Critical Thinking Skills] Students will be able to explain how natural selection has lead to a biosphere composed of many diverse life forms and will be competent in explaining why it is important that this diversity be preserved. Students will also be capable of designing a plan to protect an endangered ecosystem.</p>	<p><u>Direct Measure(s)</u> Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey</p>
<p>Outcome 4: [Content/Discipline Knowledge and Skills] Graduates will be able to demonstrate specific content knowledge, concepts, principles, and theories of biological sciences.</p>	<p><u>Direct Measure(s)</u> Comprehensive Exam</p>	<p><u>Indirect Measure(s)</u> Exit Survey</p>

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<p>Outcome 5: [Content/Discipline Knowledge and Skills] Undergraduate Students in the Biology BS program will be able to demonstrate and or perform in practice model ethical choices under a variety of real world scenarios. and be able to demonstrate knowledge regarding ethical choices associated with academic, research and community situations.</p>	<p><u>Direct Measure(s)</u></p> <ul style="list-style-type: none"> • Course-embedded assessment • Case studies 	<p><u>Indirect Measure(s)</u> Exit Survey</p>
<p>Outcome 6: [Content/Discipline Knowledge and Skills] Graduates will be able to demonstrate biological laboratory and field skills.</p>	<p><u>Direct Measure(s)</u> Comprehensive Exam</p>	<p><u>Indirect Measure(s)</u> Exit Survey</p>
<p>Outcome 7: [Content/Discipline Knowledge and Skills] Students will be capable of distinguishing the various career opportunities available to graduates who complete a BS versus MS versus a PhD program. Students will also have the ability to identify several specific local and national research internships available to them to obtain research experience.</p>	<p><u>Direct Measure(s)</u> Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey</p>