

Academic Learning Compact

Degree Program: Biomedical Engineering (BS) (CIP Code 14.0501)

Intended Program Student Learning Outcomes	Direct and Indirect Measures	
	Direct Method of Assessment	Indirect Method of Assessment
<p>Outcome 1: [Critical Thinking Skills] & [Content/Discipline Knowledge and Skills] Students graduating from the program will have the ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.</p>	<p><u>Direct Measure(s)</u> Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey Focus Group</p>
<p>Outcome 2: [Critical Thinking Skills] & [Content/Discipline Knowledge and Skills] Students graduating from the program will have an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.</p>	<p><u>Direct Measure(s)</u> Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey Focus Group</p>
<p>Outcome 3: [Communication Skills] Students graduating from the program will have the ability to communicate effectively with a range of audiences.</p>	<p><u>Direct Measure(s)</u> Grading with criteria or rubric Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey Focus Group</p>
<p>Outcome 4: [Critical Thinking Skills] & [Content/Discipline Knowledge and Skills] Students graduating from the program will have the ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.</p>	<p><u>Direct Measure(s)</u> Grading with criteria or rubric Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Focus Group</p>
<p>Outcome 5: [Communication Skills], [Critical Thinking Skills] & [Content/Discipline Knowledge and Skills] Students graduating from the program will have the ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.</p>	<p><u>Direct Measure(s)</u> Grading with criteria or rubric Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey Focus Group</p>

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<p>Outcome 6: [Critical Thinking Skills] & [Content/Discipline Knowledge and Skills] Students graduating from the program will have the ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.</p>	<p><u>Direct Measure(s)</u> Grading with criteria or rubric Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey Focus Group</p>
<p>Outcome 7: [Critical Thinking Skills] & [Content/Discipline Knowledge and Skills] Students graduating from the program will have the ability to acquire and apply new knowledge as needed, using appropriate learning strategies.</p>	<p><u>Direct Measure(s)</u> Grading with criteria or rubric Course-embedded assessment</p>	<p><u>Indirect Measure(s)</u> Exit Survey Focus Group</p>