

Academic Learning Compact

Degree Program: Mechanical Engineering (BS) (CIP Code 14.1901)

Intended Program Student Learning Outcomes	Direct and Indirect Measures	
	Direct Method of Assessment	Indirect Method of Assessment
Outcome 1: [Communication Skills] Upon completion of the degree program, the student will be able to communicate effectively with a range of audiences.	<u>Direct Measure(s)</u> Course-embedded assessment	<u>Indirect Measure(s)</u> Exit Survey
Outcome 2: [Critical Thinking Skills] Upon completion of the degree program, the student will be able to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	<u>Direct Measure(s)</u> Course-embedded assessment	<u>Indirect Measure(s)</u> Exit Survey
Outcome 3: [Critical Thinking Skills] Upon completion of the degree program, the student will be able to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	<u>Direct Measure(s)</u> Course-embedded assessment	<u>Indirect Measure(s)</u> Exit Survey
Outcome 4: [Critical Thinking Skills] Upon completion of the course of instruction, the student will be able 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.	<u>Direct Measure(s)</u> Course-embedded assessment	<u>Indirect Measure(s)</u> Exit Survey
Outcome 5: [Content/Discipline Knowledge and Skills] Upon completion of the degree program, the student will be able 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.	<u>Direct Measure(s)</u> Course-embedded assessment	<u>Indirect Measure(s)</u> Exit Survey

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<p>Outcome 6: [Content/Discipline Knowledge and Skills] By the end of the year, the program will graduate at least 70 students with BS degrees. Among them, at least 25% will pursue advanced degrees in professional/graduate schools.</p>	<p><u>Direct Measure(s)</u></p> <ul style="list-style-type: none"> • Exit Interview (Other) • Graduation Data (Other) 	<p><u>Indirect Measure(s)</u></p> <p>N/A</p>