

## Academic Learning Compact

***Degree Program: Industrial Engineering (BS) (CIP Code 14.3501)***

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

Intended Program Student Learning Outcomes	Direct and Indirect Measures	
	Direct Method of Assessment	Indirect Method of Assessment
<p><b>Outcome 5: [Critical Thinking Skills]</b>  Upon completion of the course of instruction, the student will be able to acquire and apply new knowledge as needed, using appropriate learning strategies.</p>	<p><u><b>Direct Measure(s)</b></u>  Senior thesis or major capstone project</p>	<p><u><b>Indirect Measure(s)</b></u>  Exit Survey</p>
<p><b>Outcome 6: [Content/Discipline Knowledge and Skills]</b>  Upon completion of the course of instruction, the student will be able to demonstrate their ability to identify, formulate, and solve complex engineering problems by applying principles in mathematics and computing.</p>	<p><u><b>Direct Measure(s)</b></u>  Course-embedded assessment</p>	<p><u><b>Indirect Measure(s)</b></u>  Exit Survey</p>
<p><b>Outcome 7: [Content/Discipline Knowledge and Skills]</b>  Upon completion of the course of instruction, the student will be able to demonstrate their 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><b>Direct Measure(s)</b></u>  Course-embedded assessment</p>	<p><u><b>Indirect Measure(s)</b></u>  Exit Survey</p>
<p><b>Outcome 8: [Content/Discipline Knowledge and Skills]</b>  Upon completion of the course of instruction, the student will be able to demonstrate their abilities 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><b>Direct Measure(s)</b></u>  Course-embedded assessment</p>	<p><u><b>Indirect Measure(s)</b></u>  Exit Survey</p>