



### Academic Learning Compact

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

Intended Program Student Learning Outcomes	Academic Learning Compact(s)	Direct and Indirect Measures	
		Direct Method of Assessment	Indirect Method of Assessment
An ability to communicate effectively with a range of audiences	Communication	Direct - Senior Thesis or Major Capstone Project	Indirect - Other
An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	Discipline Specific Knowledge	Direct - Course Embedded Assessment	Indirect - Exit Survey
An ability to identify, formulate, and solve complex engineering problems by	Discipline Specific Knowledge	Direct - Course Embedded Assessment	Indirect - Student Satisfaction Survey

applying principles in mathematics and computing.			
An ability to apply modern industrial engineering techniques, skills and tools necessary to design, develop, implement, and improve integrated systems that include people, materials, information, equipment and energy	Discipline Specific Knowledge	Direct - Senior Thesis or Major Capstone Project	Indirect - Student Satisfaction Survey
An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.	Critical Thinking	Direct - Course Embedded Assessment	Indirect - Exit Survey
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.	Critical Thinking	Direct - Other	Indirect - Other
An ability to demonstrate understanding of professional and ethical responsibility.	Critical Thinking	Direct - Course Embedded Assessment	Indirect - Exit Survey
An ability to demonstrate ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment,	Critical Thinking	Direct - Other	Indirect - Other

establish goals, plan tasks, and meet objectives			
By the end of the year, the program will graduate at least 20 students with the Bachelor of Science degrees in Industrial Engineering with the knowledge and skills to enter industry or continue into graduate education.	Discipline Specific Knowledge	Direct - Other	Indirect - Exit Survey
An ability to identify, formulate and solve engineering problems.	Critical Thinking	Direct - Senior Thesis or Major Capstone Project	Indirect - Exit Survey