



### Academic Learning Compact

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

Intended Program Student Learning Outcomes	Academic Learning Compact(s)	Direct and Indirect Measures	
		Direct Method of Assessment	Indirect Method of Assessment
ABET SLO #1: 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.	Discipline Specific Knowledge	Direct - Course Embedded Assessment Direct - Other	Indirect - Exit Survey
ABET SLO #6: Upon completion of the degree program, the student will be able to develop and conduct appropriate experimentation, analyze and	Critical Thinking, Discipline Specific Knowledge	Direct - Course Embedded Assessment	Indirect - Exit Survey

interpret data, and use engineering judgment to draw conclusions.			
ABET SLO #2: 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.	Critical Thinking, Discipline Specific Knowledge	Direct - Course Embedded Assessment	Indirect - Exit Survey
ABET SLO #3: Upon completion of the degree program, the student will be able to communicate effectively with a range of audiences.	Communication	Direct - Course Embedded Assessment	Indirect - Exit Interviews
By the end of the year, the program will graduate students with BS degrees who will be employed by engineering related industry, companies, and research laboratories or pursue advanced degrees in professional/graduate schools.	Discipline Specific Knowledge	Direct - Other	Indirect - Exit Survey
ABET SLO #7: Upon completion of the degree program, the student will be able to acquire and apply new knowledge as	Critical Thinking, Discipline Specific Knowledge	Direct - Course Embedded Assessment	Indirect - Exit Interviews

needed, using appropriate learning strategies.			
ABET SLO #4: Upon completion of the degree program, 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.	Critical Thinking	Direct - Course Embedded Assessment	Indirect - Exit Interviews
ABET SLO#5: Upon completion of the degree program, the student will be able to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	Communication, Critical Thinking	Direct - Course Embedded Assessment	Indirect - Exit Interviews