

Outcome Statement	Performance Indicators
(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	1: An ability to apply knowledge of mathematics, science, and mechanical engineering. 2: Apply knowledge of computing and mathematics appropriate to the discipline.
(2) 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	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
(3) an ability to communicate effectively with a range of audiences	Function effectively on teams to accomplish a common goal Communicate effectively with a range of audiences.
(4) an 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	Understanding professional, ethical, legal, security, and social issues and responsibilities.
(5) an 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	1: Function as a team member to solve a set of selected mechanical engineering problems in collaboration with a group of class mates. 2: The team must name a team leader who will be responsible of organizing the team tasks according to each member abilities.

<p>(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions</p>	<p>1-Develop and conduct appropriate experimentation on laboratory instruments and equipment to collect data. 2- Analyze a problem and identify and define the computing requirements appropriate to its solution.</p>
<p>(7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies</p>	<p>1- Analyze a problem and identify and define the computing requirements appropriate to its solution. 2- Apply design and development principles in the construction of software systems of varying complexity.</p>