

Upon successful completion of the program, graduates of the mechanical engineering program are expected to have:

- a1. An ability to apply knowledge of mathematics
- a2. An ability to apply knowledge of science
- a3. An ability to apply knowledge of engineering
- b. An ability to design and conduct experiments, as well as to analyze and interpret data
- c. 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
- d. An ability to function on multi-disciplinary teams
- e. An ability to identify, formulate, and solve engineering problems
- f. An understanding of professional and ethical responsibilities
- g1. An ability to write effectively
- g2. An ability to speak effectively
- h. An understanding of the impact of the engineering solutions in a global, economic, environmental, and societal context
- i. A recognition of the need for, and ability to engage in life-long learning
- j. A knowledge of contemporary issues
- k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice