LEARNING OUTCOMES: 
ENGINEERING MECHANICS, 
BS

Learning Outcomes for the degree of Bachelor of Science Major in 
Engineering Mechanics

Student learning outcomes are based on learning outcomes in line with 
the ABET accreditation process.

Engineering Mechanics graduates will have:

1. An ability to identify, formulate, and solve complex engineering 
   problems by applying principles of engineering, science, and 
   mathematics.
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.
3. An ability to 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.
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.
6. An ability to develop and conduct appropriate experimentation, 
   analyze and interpret data, and use engineering judgment to draw 
   conclusions.
7. An ability to acquire and apply new knowledge as needed, using 
   appropriate learning strategies.