Bachelor of Science in Industrial Engineering†
Department of Systems and Industrial Engineering

Program Outcomes

The student outcomes include:

• (1) an ability to identify, formulate, and solve complex engineering problems by applying
  principals 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 judgements, 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 use engineering judgement to draw conclusions
• (7) an ability to acquire and apply new knowledge as needed, using appropriate
  learning strategies
• (INE-1) The curriculum must prepare graduates to design, develop, implement, and
  improve integrated systems that include people, materials, information, equipment and
  energy. The curriculum must include in-depth instruction to accomplish the integration
  of systems using appropriate analytical, computational, and experimental practices.