



Bachelor of Science in Industrial Engineering[†]

Department of Systems and Industrial Engineering

Student 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.