

## Bachelor of Science in Industrial Engineering<sup>†</sup>

### Department of Systems and Industrial Engineering

#### Program Outcomes

**The student outcomes include:**

- (a) ability to apply knowledge of mathematics, science, and engineering
- (b) ability to design and conduct experiments, as well as to analyze and interpret data
- (c) ability to design system, component, or process to meet needs within realistic constraints
- (d) ability to function on multidisciplinary teams
- (e) ability to identify, formulate, and solve engineering problems
- (f) understanding of professional and ethical responsibility
- (g) ability to communicate effectively
- (h) broad education necessary to understand the impact of engineering solutions
- (i) recognition of the need for, and an ability to engage in life-long learning
- (j) knowledge of contemporary issues
- (k) ability to use techniques, skills, and modern engineering tools necessary for engineering practice
- (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.