

## Bachelor of Science in Engineering Management<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
- (EMG-1) The curriculum must prepare graduates to understand the engineering relationships between the management tasks of planning, organization, leadership, control, and the human element in production, research, and service organizations; to understand and deal with the stochastic nature of management systems. The curriculum must also prepare graduates to integrate management systems into a series of different technological environments.