

Program Educational Objectives and Student Outcomes

Program Educational Objectives

The graduates of the Computer Engineering program will have the following characteristics 3 to 5 years after graduation:

- Establish a successful career utilizing their education in computer engineering or engage in advanced studies.
- Communicate effectively in both written and oral forms across all levels of engineering processes.
- Engage in lifelong learning to stay current with their profession as it changes.
- Demonstrate professional competence, integrity and responsibility in diverse work environments.

Student Outcomes

By the time of graduation, student outcomes should include the following.

- A. an ability to apply knowledge of mathematics, science, and engineering
- B. an ability to design and conduct experiments, as well as to analyze and interpret data
- C. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- D. an ability to function on multidisciplinary teams
- E. an ability to identify, formulate, and solve engineering problems
- F. an understanding of professional and ethical responsibility
- G. an ability to communicate effectively
- H. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- I. a recognition of the need for, and an ability to engage in lifelong learning
- J. a knowledge of contemporary issues
- K. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice