Bachelor of Science in Computer Engineering

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.