

## **Program Educational Objectives of the Bachelor of Science in Civil**

### **Engineering:**

- Graduates will meet high professional and ethical standards of employers of civil engineers
- Graduates will pursue professional licensure and/or participate in advanced study
- Graduates will pursue leadership positions in their communities and professions

### **Student Outcomes of the Bachelor of Science in Civil Engineering:**

- 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 multi-disciplinary 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