

School of Engineering Civil Engineering, B.S.C.E

Broad Learning Goals

- A. Prepare our graduates for successful professional practice or advanced study in civil engineering.
- B. Provide our graduates with a broad education as a foundation for professional licensure and life-long learning.
- C. Produce graduates with an appreciation for social, economic and ethical issues related to civil engineering.

Student Learning Outcomes

- A1. Demonstrate an ability to apply knowledge of mathematics, science and engineering.
- A2. Demonstrate an ability to design and conduct experiments as well as to analyze and interpret data.
- A3. Demonstrate 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.
- A4. Demonstrate an ability to function on multi-disciplinary teams.
- A5. Demonstrate an ability to identify, formulate and solve engineering problems.
- A6. Demonstrate an understanding of professional and ethical responsibility.
- A7. Demonstrate an ability to communicate effectively.
- A8. Demonstrate understanding of the impact of engineering solutions in a global, economic, environmental, and societal context.
- A9. Demonstrate recognition of the need for and an ability to engage in lifelong learning.
- A10. Demonstrate knowledge of contemporary issues.
- A11. Demonstrate an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.