

The Program Educational Objectives of the B.S. Civil Engineering Program are:

- Graduates develop careers in civil engineering and other related fields.
- Graduates are productive engineers, accomplishing independent task assignments and working effectively in teams with other professionals.
- Graduates are active in the professional community, pursue licensure and lifelong learning, and demonstrate high ethical standards.

The Student Outcomes of the B.S. Civil Engineering Program are:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- 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
- an ability to function on multi-disciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in lifelong learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- knowledge of northern issues