

Department of Civil and Environmental Engineering

www.ndsu.edu/ce

The mission of the Department of Civil and Environmental Engineering is to provide quality education to prepare nationally competitive undergraduate students for a successful career in civil engineering; to provide advanced skills and knowledge in state-of-the-art research and design in sub-areas of civil engineering for graduate students; and to provide service to the university, engineering profession, and the public.

The following program education objectives are consistent with the university, college, and department missions. Graduates of our B.S. in Civil Engineering program are expected within a few years of graduation to have:

1. Established a mastery of fundamental knowledge, problem solving skills, engineering experimental abilities, and design capabilities for a civil engineering career and/or graduate school.
2. Established the knowledge and skills necessary for identifying and assessing design alternatives and the related social, economic, environmental, and public safety impacts.
3. Demonstrated their ability to deal effectively with ethical and professional issues, taking into account the broader societal implications of civil engineering.
4. Obtained or made progress for obtaining professional licensure, assumed or made progress toward assuming leadership roles, and engaged in life-long learning.

Civil engineering includes the planning, design, construction, maintenance, and operation of large and permanent projects of our civilization. Civil engineers are in demand wherever there are people. The major subdivisions of civil engineering at NDSU are structural, geotechnical, environmental, water resources, and transportation engineering.

Civil Engineers are responsible for such projects as bridges, buildings, dams, and other river and harbor work, municipal water supply and sanitation facilities, streets, highways, and other transportation facilities. On many projects, civil engineers work in close cooperation with engineers and scientists from other fields. The Civil Engineering program at NDSU is accredited by the Engineering Accreditation Commission of the ABET (www.abet.org (<http://www.abet.org>)).

Civil Engineering (<http://bulletin.ndsu.edu/past-bulletin-archive/2017-18/undergraduate/colleges/engineering/civil-environmental-engineering/civil-engineering>)