

# Civil Engineering

## Bachelor of Science (B.Sc.) in Civil Engineering

Civil engineering, a broad field of study in engineering sciences, plays a major role in the planning, construction, and maintenance of fixed structures or public works. Examples of civil engineering work include building structures, bridges, highways, transit systems, dams, tunnels, harbors, canals, and energy facilities. The Department of Civil Engineering educates students in subject areas fundamental to civil and environmental engineering. Graduates are encouraged to pursue excellence through contributions to both research and the profession, while serving the industry and the community to create an enhanced environment for humanity.

The Bachelor of Science (B.Sc.) degree program in Civil Engineering offers courses and design projects in structural, geotechnical, transportation, materials, environmental, and water engineering. The program emphasizes academic study, problem-solving skills, laboratory experience, design, and advanced computer methods for civil engineering. The first year of the program primarily covers mathematics and the physical sciences. The second year concentrates on engineering sciences. In the subsequent years, the program focuses on engineering approaches to analysis, design, and engineering management. The students are required to pass a minimum of 145 course credits over 5 years.

As a result of completing this program, graduates will be able to:

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Work in various civil engineering fields, while contributing to the quality of life, the protection, the advancement and the welfare of the community.

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Advance to graduate-level studies

Graduates of Civil Engineering work in planning and design, construction, research and development, operations, maintenance, and as engineers in management.

Please click on the [Course List](#) link to view all the courses offered in this degree.