

# CIVIL ENGINEERING

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**Academic Staff:** Please refer to our website at: [umanitoba.ca/faculties/engineering/departments/civil/facultystaff-academic.html](http://umanitoba.ca/faculties/engineering/departments/civil/facultystaff-academic.html) (<http://umanitoba.ca/faculties/engineering/departments/civil/facultystaff-academic.html>)

The Department of Civil Engineering offers a fully accredited degree program in Civil Engineering. Graduates of the Civil Engineering program are academically qualified to register as Engineers-in-Training in engineering licensing bodies in Canada. The Civil Engineering program is designed to give students a broad knowledge of engineering principles and professional practice. The program has a strong core component that provides exposure to a range of areas in Civil Engineering. These include – but are not limited to – the design of buildings and bridges, the design of facilities and methods for treatment of water, waste water and solid waste, the design of foundations and earthworks such as river bank protection, transportation planning, the design of roads and pavement, the design of hydraulic structures such as sewers, canals, and spillways, and the management of surface and ground water. In the last years of the program, students specialize through selection of technical elective courses. A cooperative education option allows students to include practical work experience in their program.

## Civil Engineering Degree Program

Students are to consult with the department for four and five-year program plans. Students are expected to follow the program plans when possible, as timetabling and course offerings are based on these plans.

## Civil Engineering Program Streams

Program streams recognize a student's extent of training through the selection of technical elective courses in a specific program area. The department offers four streams (Environmental and Water Resources, Geotechnical and Geoenvironmental, Structures and Construction, Transportation). Students interested in pursuing more focused studies may choose to complete a stream. A student may only complete one stream. Students are encouraged to review program requirements for each stream.

## Student Support

The individual faculty members in the Department of Civil Engineering may offer summer employment of a limited number of undergraduate students. Typical duties include assisting academic staff members with research projects. This provides students with hands on opportunities to work in research laboratories, and field projects alongside of graduate students.

## Co-operative Education Program in Civil Engineering

Please refer Co-operative Education (<https://catalog.umanitoba.ca/undergraduate-studies/engineering/#cooperativeeducationandindustrialinternshipprogramstext>) and Industrial Internship Programs

## Programs

Degree/Diploma	Years to Completion	Total Credit Hours	Has Co-op Option
Civil Engineering, B.Sc. ( <a href="https://catalog.umanitoba.ca/undergraduate-studies/engineering/civil-engineering/civil-engineering-bsc/">https://catalog.umanitoba.ca/undergraduate-studies/engineering/civil-engineering/civil-engineering-bsc/</a> )	4	163	Yes