

CIVIL ENGINEERING, M.SC.

Civil Engineering

Head: Dr. Shawn Clark, P.Eng.

Associate Head: Dr. Mohamed Bassuoni, P.Eng. (Graduate Programs); Dr. Jonathan Regehr, P.Eng. (Undergraduate Programs)

Campus Address/General Office: E1 - 368 Engineering

Telephone: 204-474-8596

Fax: 204-474-7513

Email Address: ce_graduate@umanitoba.ca

Website: umanitoba.ca/engineering/civil/ (<https://umanitoba.ca/engineering/civil/>)

Academic Staff: Please refer to the Civil Engineering (<https://umanitoba.ca/engineering/faculty-staff/civil-engineering/>) website for Faculty information.

Civil Engineering Program Information

The Department of Civil Engineering offers programs of coursework and research leading to the Master of Science, Master of Engineering and Doctor of Philosophy in: environmental engineering; geotechnical engineering; structural engineering; transportation engineering and water resources engineering.

Admission Information

Admission to the Faculty of Graduate Studies

Application and Admission Procedures are found in the Academic Guide (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/application-admission-registration-policies/>).

Admission requirements for Master's students are found in the Master's Degrees General Regulations (https://catalog.umanitoba.ca/graduate-studies/academic-guide/masters-degrees-general-regulations/#Admission_FGSMasters) section of the Guide.

Civil Engineering M.Sc. Admission Requirements

Applicants are required to hold a Bachelor's degree in Civil Engineering from a recognized university. Applicants with other engineering degrees or with Honours degrees in related areas may also be accepted and recommended at the discretion of the Department.

Application Information

Students should complete and submit their online application with supporting documentation by the date indicated on the Civil Engineering M.Sc. program of study (<https://umanitoba.ca/explore/programs-of-study/civil-engineering-msc-meng/>) page.

Degree Requirements

The M.Sc. is a research degree consisting of coursework and thesis. A minimum of 12 credit hours of coursework shall be required with at least 9 credit hours at the 7000 level as approved by the student's advisory committee.

It is the Department's policy that graduate students shall take at least 6 credit hours in their core area of research within Civil Engineering with no more than 6 credit hours of graduate level courses from one professor. The candidate is required to make an oral presentation on the completed M.Sc. thesis to the Examining Committee, and to pass an oral examination.

Expected Time to Graduate: 2 years

Progression Chart

All students must register in GRAD 7020 each term (Fall, Winter & Summer) as long as they are in the program.

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial (must be completed in first term)	0
COURSE 7XXX	Various Coursework ¹	12
Hours		12
Year 2		
GRAD 7000	Master's Thesis ²	0
Hours		0
Total Hours		12

¹ The M.Sc. is a research degree consisting of coursework and thesis. A minimum of 12 credit hours of coursework shall be required with at least 9 credit hours at the 7000 level as approved by the student's advisory committee. It is the Department's policy that graduate students shall take at least 6 credit hours in his/her core area of research within Civil Engineering with no more than 6 credit hours of graduate level courses from one professor.

² The oral examination will consist of an oral presentation by the student (20 minutes maximum) on the thesis research, followed by a questions period, by the examining committee. The duration of the question period shall not exceed 90 minutes. The Chair may exercise discretion in inviting questions from guests.

Registration Information

Students should familiarize themselves with the Faculty of Graduate Studies 'GRAD' courses applicable to their program (<https://catalog.umanitoba.ca/graduate-studies/registration-information/>). If you have questions about which GRAD course(s) to register in, please consult your home department/unit.

Courses are subject to cancellation if there is insufficient enrolment. Courses with insufficient enrolment may be cancelled the first week of classes. Not all courses will be offered each year – contact the department for courses that will not be offered. All returning and newly admitted students must see an academic advisor or the department head prior to attempting to register.

Regulations

Students must meet the requirements as outlined in both Supplementary Regulation and BFAR documents as approved by Senate.

Supplementary Regulations

Individual units may require specific requirements above and beyond those of the Faculty of Graduate Studies, and students should consult unit supplementary regulations (<https://umanitoba.ca/graduate-studies/supplementary-regulations/>) for these specific regulations.

Bona Fide Academic Requirements (BFAR)

Bona Fide Academic Requirements (BFAR) (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/academic-performance-general/#BFAR>) represent the core academic requirements

a graduate student must acquire in order to gain, and demonstrate acquisition of, essential knowledge and skills.

All students must successfully complete:

- GRAD 7300 prior to applying to any ethics boards which are appropriate to the student's research or within the student's first year, whichever comes first; and
- GRAD 7500 within the first term of registration;

unless these courses have been completed previously, as per Mandatory Academic Integrity Course (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/academic-performance-general/#GRAD7500>) and Mandatory Research Integrity Online Course (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/academic-performance-general/#GRAD7300>).

Students must also meet additional BFAR requirements (<https://umanitoba.ca/graduate-studies/student-experience/core-academic-requirements/#additional-requirements-by-program>) that may be specified for their program.

General Regulations

All students must:

- maintain a minimum degree grade point average of 3.0 with no grade below C+,
- meet the minimum and not exceed the maximum course requirements, and
- meet the minimum and not exceed the maximum time requirements (in terms of time in program and lapse or expiration of credit of courses).