

# MECHANICAL ENGINEERING, M.SC.

Mechanical Engineering

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**Academic Staff:** Please refer to the Mechanical Engineering website (<https://umanitoba.ca/engineering/faculty-staff/mechanical-engineering/>) for current staff listing.

## Mechanical Engineering Program Information

The graduate program in the Department of Mechanical Engineering offers a world-class graduate experience leading to degrees in Doctor of Philosophy, Master of Science and Master of Engineering.

## Admission Information

### Admission to the Faculty of Graduate and Postdoctoral 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](https://catalog.umanitoba.ca/graduate-studies/academic-guide/masters-degrees-general-regulations/#Admission_FGSMasters)) section of the Guide.

### Mechanical Engineering M.Sc. Admission Requirements

Applicants are normally required to hold a Bachelor's degree in Mechanical Engineering or related field from a recognized university. Applicants with other engineering degrees or with honours degrees in related areas may also be accepted at the discretion of the department. In certain cases (e.g., non-engineering graduates), acceptance may be subject to satisfying certain requirements. Contact the department for more information.

## Application Information

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

## Degree Requirements

A minimum of 12 credit hours of coursework will be required with at least nine credit hours at the 700/7000 level as approved by the student's advisor. The minimum time is one calendar year of full-time study and research and must be spent on campus. All candidates for the M.Sc. degree are required to register in MECG 7890. The M.Sc. degree will not be awarded without a passing grade in MECG 7890.

**Expected Time to Graduate:** 2 years

## Progression Chart

Course	Title	Hours
<b>Year 1</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
	<b>Hours</b>	<b>0</b>
<b>Years 1-2</b>		
Courses at the 7000 level		9
Courses at the 3000 or 4000 level		3
	<b>Hours</b>	<b>12</b>
<b>Year 2</b>		
GRAD 7000	Master's Thesis	0
MECG 7890	M.Sc. Graduate Research Seminar <sup>1</sup>	1
	<b>Hours</b>	<b>1</b>
	<b>Total Hours</b>	<b>13</b>

<sup>1</sup> The M.Sc. degree will not be awarded without a passing grade in MECG 7890, which involves a seminar presentation on research being conducted by the student.

## Registration Information

Students should familiarize themselves with the Faculty of Graduate and Postdoctoral 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 and Postdoctoral 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).