

University of Alberta University of Alberta Calendar 2025-2026

Graduate Programs in Mechanical Engineering

Department of Mechanical Engineering
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Please Note [June 12, 2025] - ADDENDUM. The Cambridge test has been added to the Entrance Requirements. See [Amendments to the Calendar](#) for additional information.

General Information

The Department of Mechanical Engineering offers graduate courses and provides research facilities for well qualified students of recognized universities who wish to pursue advanced studies leading to the MEng, MSc, and PhD degrees in Mechanical Engineering. In addition, the Department offers a program in Engineering Management to graduate engineers of any discipline, leading to the MEng, MSc, and PhD degrees in Engineering Management.

The general fields of study include solid mechanics, dynamics, thermodynamics, fluid mechanics, heat transfer, combustion, biomedical engineering, manufacturing engineering, and engineering management.

While the general guidelines for entrance and program requirements are listed below, specific details for each of the degrees are found in the document *Graduate Program Manual for MEng, MSc and PhD in Mechanical Engineering and Engineering Management*, available from the Department. As well, currently active areas of research are documented on the Department's home page.

Entrance Requirements

The Department's minimum admission requirements for degrees in Mechanical Engineering and Engineering Management are an undergraduate degree with an admission GPA of at least 3.0 on the 4-point scale from the University of Alberta, or an equivalent qualification and standing from a recognized institution. The admission GPA will be calculated on the last 60 units of graded coursework completed, or on the equivalent of the last two years of full-time graded coursework.

Applicants with exceptional or tenured work experience who do not meet the minimum admission requirements may apply for special consideration. Specific details are found in the document *Graduate Program Manual for MEng, MSc and PhD in Mechanical Engineering and Engineering Management*, available from the Department or on the Department's home page.

Where applicable, applicants must provide proof of English Language Proficiency (refer to [English Language Requirement](#)). Any one of the following is acceptable:

- a TOEFL score of 93 (Internet-based) or equivalent;
- an overall IELTS score of at least 6.5 with at least 6.0 on each band;
- an overall minimum CAEL score of 70 with at least 60 on each subset;

- an overall minimum PTE score of 61;
- an overall minimum CAMBRIDGE score of 176, with at least 169 on each subscore.

Applicants are also required to submit the following supporting documentation:

- Three letters of reference
- Curriculum Vitae
- Personal Statement

See [Required Supporting Documentation](#) on the Department website for further information.

Application deadlines:

Current deadlines for the upcoming Fall and Winter terms can be found on the department webpage.

Financial Assistance

Financial assistance is available in the form of scholarships and fellowships (see Graduate Financial Aid section of this calendar) and through the Department in the form of graduate assistantships and contract research (available for Canadian students and students holding valid work permits). The assistantships are normally available to students registered full time in thesis programs; funding is not normally provided for students registered part time or in MEng programs. Summer assistance can sometimes be arranged for students without scholarship support who continue their research full time through the summer months. Further information is available on the Department's home page.

Graduate Program Requirements

Master's Programs

- [Master of Science \(Mechanical Engineering\)](#)
- [Master of Science in Engineering Management \(Mechanical Engineering\)](#)
- [Master of Engineering \(Mechanical Engineering\)](#)
- [Master of Engineering in Engineering Management \(Mechanical Engineering\)](#)

Doctoral Programs

- [Doctor of Philosophy \(Mechanical Engineering\)](#)
- [Doctor of Philosophy in Engineering Management \(Mechanical Engineering\)](#)

Combined Degree Programs

- [Master of Business Administration / Master of Engineering Combined Degrees Program \(Mechanical Engineering\)](#)

Graduate Courses

Graduate courses can be found in [Course Listings](#), under the subject headings Mechanical Engineering (MEC E) and Engineering Management (ENG M).
