



Engineering skills and traits

- Problem analysis
- Investigation
- Design
- Use of engineering tools
- Individual and team work
- Communication
- Professionalism
- Impact of engineering on society and the environment
- Ethics and equity
- Economics and project management
- Life-long learning

Price Faculty of **ENGINEERING**

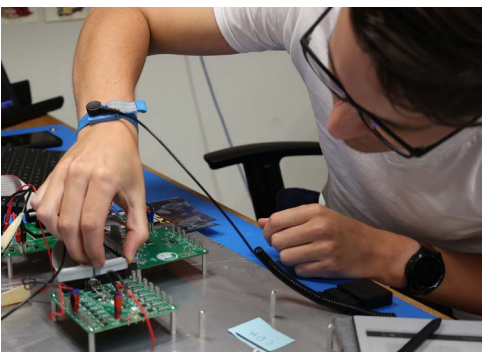
The Price Faculty of Engineering offers an array of diverse programs: five accredited Bachelor of Science (Engineering) degrees and the Engineering Access Program (ENGAP) for students of Indigenous ancestry.

Every student in Engineering has opportunities to apply the theoretical foundations of classroom learning to real-world design problems. Engineering programs offer focus areas, options, specializations and streams for students to truly customize their learning experience. The preliminary year provides students with a foundation in science, math and engineering which allows for exploration in each of the program areas.

High school requirements

Min. average of 80% of the following with no less than 70% in each course.

- English 40S
- Pre-Calculus 40S
- Chemistry 40S
- Physics 40S



- **Direct Entry**
- **4-5 year models for degree completion**
- **Co-op available**



**University
of Manitoba**

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Preliminary year courses

The preliminary year is common to all engineering programs. Students must complete a minimum of eight of the 13 listed courses, excluding CHEM 1122, to be eligible for admission to a department. Criteria for admission is the completion of an application and competitively based on the calculated GPA of the top eight 3 credit hour courses completed from the list below. The remaining courses must be completed prior to graduation.

Course #	Course Name	Credit Hours
CHEM 1100	Introduction Chemistry 1	3
CHEM 1122	Introduction to Chemistry Techniques for Engineering 1	1.5
COMP 1012	Computer Programming for Scientists and Engineers	3
ENG 1430	Design for Engineering	3
ENG 1440	Introduction to Statics	3
ENG 1450	Introduction to Electrical and Computer Engineering	3
ENG 1460	Introduction to Thermal Sciences	3
MATH 1210	Techniques of Classical and Linear Algebra	3
MATH 1510	Applied Calculus 1 or equivalent	3
MATH 1710	Applied Calculus 2 or equivalent	3
PHIL 1290	Critical Thinking	3
PHYS 1050	Physics 1: Mechanics	3
Written English requirement from approved engineering list		3

Beyond the Classroom

Student life is much more than classrooms and assignments. Students can get involved with extra-curriculars such as student council, representational or special interest groups, or hone their skills through participation in a competition team. Teams bring students of all skill levels and programs together to design and build items to compete, such as race cars, steel bridges, rockets or concrete canoes (just to name a few).

Students have the opportunity to get paid experience out in the field through the Co-operative Education and Industrial Internship Program, which is available in each department.

There are also many opportunities for students to advance their learning and make connections by attending conferences or industry events.



Programs

- Biosystems
- Civil
- Computer
- Electrical
- Mechanical



**Scan to learn more
or contact us!**

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