



**KEY ATTRIBUTES  
OF AN ENGINEER  
INCLUDE:  
PROBLEM SOLVING,  
CREATIVITY,  
COMMUNICATION,  
AND TEAMWORK.**

**INTERNSHIP AND  
CO-OP OPTIONS  
ARE AVAILABLE IN  
ALL OF OUR DEGREE  
PROGRAMS.**

## 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.

The Price Faculty of Engineering is Western Canada's oldest engineering school. Students in the Faculty have access to resources that help them succeed in all aspects of life. Every student in Engineering has opportunities to apply the theoretical foundations of classroom learning to real-world design problems throughout the program. 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.

### YOUR FUTURE STARTS HERE

The preliminary year is common to all programs in Engineering and consists of 13 courses. Students must complete a minimum of eight courses to be eligible for admission to a department.

### AREAS OF STUDY

Biosystems / Civil / Computer / Electrical / Mechanical

### CAREERS INCLUDE

Air Pollution Specialist / Biomedical Engineer / Land Development Engineer / Network Consultant / Project Manager / Systems Engineer

(✓) Direct entry / Length: 4-6 years / Increasing undergraduate enrolment by 25%

**PRICE FACULTY OF ENGINEERING**  
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[umanitoba.ca/engineering](http://umanitoba.ca/engineering)

Price Faculty  
of Engineering



**University  
of Manitoba**

## HIGH SCHOOL

### ACADEMIC SUCCESS

**Course Requirements:**

A minimum average of 80% of the following, with no less than 70% in each course: English 40S, Pre-Calculus Math 40S, Chemistry 40S and Physics 40S.

**To do this year:**

- 1: We encourage you to visit the Price Faculty of Engineering for a tour or schedule a meeting with a Student Services representative to discuss your options.
- 2: Consider attending an outreach event.
- 3: Apply online to Engineering by the admission deadline.

### CAREER TIPS

**Explore your options:**

- 1: Consider talking to your school counselor to find opportunities like shadowing a professional engineer to gain an understanding of their responsibilities and daily routine, or see if there are internships that are available to further develop your math and science skills and start to build your professional network.
- 2: Try to attend engineering camps or outreach events to develop your skills in STEM.

### VOLUNTEER & WORK EXPERIENCE

**Consider Volunteering:**

- 1: Volunteer at a museum or at a relevant camp or STEM program with roots in engineering and design.
- 2: Pursue extracurricular activities such as robotics teams, math groups, design teams, engineering clubs or coding teams.

## YEAR 1 PRELIMINARY YEAR

**Course Requirements:**

CHEM 1100 and 1122, COMP 1012, ENG 1430, 1440, 1450 and 1460, MATH 1210, 1510 and 1710, PHIL 1290, PHYS 1050 plus written English requirement.

**To do this year:**

- 1: Consider meeting with an academic advisor in the Price Faculty of Engineering to help you plan your program.
- 2: Apply online for entry into the departmental degree program by the application deadline.
- 3: For academic support, visit the Math Help Centre or contact the Academic Learning Centre to register for a supplemental instruction session.

**Suggestions to start planning your career:**

- 1: Meet with career consultants to generate career ideas based on your interests, values, personality and skills.
- 2: Research careers matching your skills and interests. Attend student and faculty run events to learn about engineering programs and choices.
- 3: Set up a careerCONNECT\* account to view job and co-op postings and register for workshops and events.
4. Explore your Co-Curricular Record (CCR), an official record of university approved activities at [communitylink.umanitoba.ca](http://communitylink.umanitoba.ca)

\*Some features only available once accepted into co-op.

**Consider linking experience to your career interests:**

- 1: Student groups including the University of Manitoba Engineering Society or Competitive Design Teams.
- 2: Join the UM Volunteer Program to volunteer for Science, Engineering and Technology Day.
- 3: Student work opportunities including; WISE Kidnetic Energy, Work-Study, STEP Services or Federal Student Work Experience Program.
4. Experiential education opportunities such as Alternative Reading Week Winnipeg or the Student Leadership Development Program.