

The University of Manitoba Engineering program requires that students enter their Faculty with a strong background in Pre-Calculus Mathematics, Chemistry and Physics. If you enter ICM without a strong background in these 3 areas, you can transfer to the Engineering program after at least 1 semester of study, but must meet the requirements below to prove that you are prepared enough to be successful in the Engineering program.

Engineering Stream Admission Program Checklist

<u>Grade 12</u>	<u>Chemistry</u>	<u>Physics</u>	<u>Math</u>
<60%	CHM 100 Required	PHY 100 Required	MTH 099/103 Required
60%-70%	CHM 100 Recommended	PHY 100 Recommended	MTH 099/103 Recommended
+ 70%	CHEM 1100	PHYS 1050	MATH 1500/1210

- CHEM 1100: _____ Grade: _____
- PHYS 1050: _____ Grade: _____
- MATH 1500: _____ Grade: _____

UTP I Course Upgrades

Do you need it?	Subject area	Course	Min. Grade 12 result required	Actual grade
	Chemistry	CHM 100	60%	
	Physics	PHY 100	60%	
	Math	MTH 099/103	60%	

**contingent on math placement test result.*

In addition to the courses you may need to upgrade above, try to choose courses from the UTP II Engineering program list provided. Note that the courses with code ENG are not usually available for registration to non-Engineering stream students.

Students must maintain full-time standing at ICM; as a result you may need to take some courses that will not hold credit in the Engineering program while working on the courses listed above.

We strongly advise that any student who would like to transfer to Engineering meet with a student advisor to discuss their course plan.



UTP Stage II “Pre-Engineering” Program Planning Guide

Type of Course	Course Code	High School Pre-Requisite	Credit Hour Value	Letter Grade Earned
Required by ICM	ILS100 or AES 100	Depends on English results provided for entry to program	0	
Required for Engineering	CHEM 1100	CHM 100 (C) and MTH 103 (C)	3	
Required for Engineering	COMP 1012	MTH 103 (C) and MATH 1500 co-requisite	3	
Required for Engineering	ENG 1430	MTH 103 (C) and PHY 100 (C) and CHM 100 (C)	3	
Required for Engineering	ENG 1440	MTH 103 (C) and PHY 100 (C) and CHM 100 (C)	3	
Required for Engineering	ENG 1450	MTH 103 (C) and PHY 100 (C) and CHM 100 (C)	3	
Required for Engineering	ENG 1460	MTH 103 (C) and PHY 100 (C) and CHM 100 (C)	3	
Required for Engineering	ENGL 1400 or POLS 1502	ILS 100 or AES 100	3	
Required for Engineering	MATH 1210	MTH 103 (C)	3	
Required for Engineering	MATH 1500	MTH 103 (C)	3	
Required for Engineering	MATH 1700	MATH 1500 (C)	3	
Required for Engineering	PHYS 1050	MTH 103 (C) and PHY 100 (C) + MATH 1500 co-requisite	3	
Required for Engineering	Complimentary Studies Elective (choose 1 from list below)		3	

Admission GPA:

Please read UM’s Applicant Information Bulletin for Engineering <http://umanitoba.ca/student/admissions/application/programs/engineering-application.html>

Complementary Studies Elective Courses (Choose 1)

PHIL 1290 – Critical Thinking (3 cr. hrs.) – *Recommended by the Engineering Faculty*

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Other elective choices

- ANTH 1220** – Cultural Anthropology (3 cr. hrs.)
ECON 1010 – Introduction to Microeconomic Principles (3 cr. hrs.)
ECON 1020 - Introduction to Macroeconomic Principles (3 cr. hrs.)
GMGT 1010 – Business & Society (3 cr. hrs.)
HRIR 2440- Human Resource Management (3 cr. hrs.)
MKT 2210 – Fundamentals of Marketing (3 cr. hrs.)
POLS 1502 – Introduction to Political Studies (3 cr. hrs.)

UM Program Information:

- Please review the list of **preferred eight courses** recommended by the faculty to ensure that you have the appropriate prerequisites for the Departmental program courses:
<https://umanitoba.ca/engineering/programs-of-study>
- Engineering is a highly **competitive** faculty. Please see admission statistics for international students here:
http://umanitoba.ca/faculties/engineering/undergraduate_studies/ugs_admission_statistics.html
- Students can only begin studying in the Price Faculty of Engineering in **September** of each year.
- To view a full list of courses for 2nd year and onwards for your specific Major, please refer to this link:<https://catalog.umanitoba.ca/undergraduate-studies/engineering/#programstext>
- Students must apply by the **deadline** for **Advanced Entry** students posted at
<http://umanitoba.ca/student/admissions/application/programs/engineering-application.html> to be eligible for the September intake.
- If you are starting your ICM program in Fall (September), you must select ILS + 4 required credit courses in your first term and 4 required credit courses in your second term to be eligible for the upcoming September intake. If you are starting your program in January or May, consult a Student Advisor for assistance in planning your progression into the faculty.
- UM’s Applicant Information Bulletin for Engineering
<http://umanitoba.ca/student/admissions/application/programs/engineering-application.html>
- To read about changes for the Chemistry (CHEM1100/1120) courses implemented in Fall 2021: [Click here](#)
- At ICM, students will be changed to UTP Stage II Science if they do not obtain a grade of B or higher in at least two subjects each term, or if they accumulate more than 18 credit hours of F or D grades, making them ineligible for entry to the UM Engineering program (ICM Engineering Good Standing Policy) - Section 5.6.3 in ICM Student Handbook.
- We strongly recommend students review the UM Engineering Academic Calendar to understand Faculty Academic Regulations: <https://catalog.umanitoba.ca/undergraduate-studies/engineering/#facultyacademicregulationstext>

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