UTP II "Pre-Engineering" Program Planning Guide

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

Grade 12	Chemistry	Physics	Math
<60%	CHM 100 Required	PHYS 100 Required	MATH 099/103 Required
60%-70%	CHM 100 Recommended	PHYS 100 Recommended	Math 099/103 Recommended
+ 70%	CHEM 1300*	PHYS 1050*	MATH 1500/1210*

** Contingent on 60% in grade 12 Math.*

☐ CHEM1300: _____ Grade: _____

☐ PHYS1050: _____ Grade: _____

☐ MATH1500: _____ 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.

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Type of Course	Course Code	High School Pre-Requisite	Credit Hour Value	Letter Grade Earned
Required by ICM	ILS100 or AES 100 or ESW100 + ESR100	Depends on English results provided for entry to program	0	
Required for Engineering	CHEM 1300	Chemistry Math 103	3	
Required for Engineering	COMP 1012	MATH 1500 co-requisite	3	
Required for Engineering	ENG 1430	No-pre-requisite	3	
Required for Engineering	ENG 1440	Math 103 Physics	3	
Required for Engineering	ENG 1450	Math 103 Chemistry, Physics	3	
Required for Engineering	ENG 1460	Math 103 Chemistry, Physics	3	
Required for Engineering	ENGL 1400	ILS100	3	
Required for Engineering	MATH 1210	Math 103	3	
Required for Engineering	MATH 1500	Math 103	3	
Required for Engineering	MATH 1700	MATH1500	3	
Required for Engineering	PHYS 1050	MATH1500 co-requisite Physics	3	
Required for Engineering	Complimentary Studies Elective (choose 1 from list below)		3	
Total	**12 courses**		**36 chs**	

ICM unique credit hours (chs) already completed: (do not include repeated courses):

30 chs to be completed by:

Month_____/ Year_____

Current cumulative GPA:

Admission GPA:
Based on the best 8 courses. If you have completed more than eight of the twelve courses for selection, the eight courses with the highest grades will be used to determine an adjusted grade point average (AGPA) for selection.

Expected intake at U of M:

Month_____/ Year_____

Number of chs of 'F' or 'D' grades:

Advisor Comments:

Complementary Studies Elective Courses (see description on the ICM portal). All are worth 3 credit hours. CHOOSE ONE!

ANTH 1220 – Cultural Anthropology
ECON 1010 – Introduction to Microeconomic
ECON 1020 - Introduction to Macroeconomic
INTB 2200 – International Management
MKT 2210 – Fundamentals of Marketing
PHIL 1290 – Critical Thinking
POLS 1502 – Introduction to Political Studies

**Students interested in transferring from UTPII Science to Engineering should refer to section 3.4.1 of the ICM Student Handbook.*

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