



UTP II Engineering Program Planning Guide

To be eligible to study in the Faculty of Engineering, you must complete a minimum of 10 courses in the first year program (30 credit hours). Each course must be completed with a minimum grade of C. 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

Type of Course	Course Code	Term	Credit Hour Value	Letter Grade Earned
Required by ICM	ILS100 or AES 100 or ESW100 + ESR100		0	
Required for Engineering	CHEM 1300		3	
Required for Engineering	COMP 1012		3	
Required for Engineering	ENG 1430		3	
Required for Engineering	ENG 1440		3	
Required for Engineering	ENG 1450		3	
Required for Engineering	ENG 1460		3	
Required for Engineering	*ENGL 1400		3	
Required for Engineering	MATH 1210		3	
Required for Engineering	MATH 1500		3	
Required for Engineering	MATH 1700		3	
Required for Engineering	PHYS 1050		3	
Required for Engineering	Complimentary Studies Elective (choose 1 from list on next page)		3	
Total	12 courses		36 credit hours	

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 a student has 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:

*CHEM1310 is required in the 2nd year of Mechanical engineering.

Notes:

CHOOSE ONE COMPLEMENTARY ELECTIVE REQUIRED FOR ENGINEERING

****PHIL 1290–Critical Thinking (3 credit hours) - RECOMMENDED BY ENGINEERING FACULTY**

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Other elective choices

- POLS 1502** – Introduction to Political Studies (3 credit hours)
- ANTH 1220** – Cultural Anthropology (3 credit hours)
- ECON 1010** – Introduction to Microeconomic Principles (3 credit hours)
- ECON 1020** – Introduction to Macroeconomic Principles (3 credit hours)
- HRIR 2440** – Human Resource Management
- INTB 2200** – International Business (3 credit hours)
- MKT 2210** – Fundamentals of Marketing (3 credit hours)

What is the Complementary Studies Elective?

Complementary studies electives are required to give the engineering student exposure to topics outside the fields of science and engineering. There are many university courses that fulfill this requirement. Any course at the 1000-level or above from the faculties of Arts or Management, or the Department of Agribusiness and Agricultural Economics can be used as a complementary studies elective. **ARTS 1100 may not be used for credit in the Faculty of Engineering.** Other university courses which do not cover topics of science or engineering may also be acceptable. Please consult with the department head (or his/her designate) for approval of such courses.

SECOND YEAR ENGINEERING PROGRAM ELECTIVE COURSES:

- Complimentary Elective – An additional complimentary elective taken at ICM would work towards the Engineering degree requirements.
- BIOL 1020 – Biology 1: Principles and Themes (*Can be used as the Science elective in Electrical and Computer programs ONLY*)
- CHEM 1310 – University 1 Chemistry: An Introduction to Physical Chemistry (*must complete CHEM 1300 first with minimum grade of 'C'. (Required for Mechanical, Biosystems and Civil programs; can be used as the Science elective in Electrical and Computer program). CHEM2240 is no longer being offered.*)

IMPORTANT NOTES ABOUT THE ENGINEERING PROGRAM

- Students can only begin studying in the Faculty of Engineering in September of each year.
- Students must apply by the deadline of each year posted at <http://umanitoba.ca/student/admissions/application/programs/engineering-application.html> to be eligible for the September intake.
- Students must complete 8 of the required first year engineering courses by the end of the WINTER semester with a minimum grade of C, in each to apply.
- Students shall have two years to complete the minimum course requirements and submit an application for possible acceptance into an Engineering program. Students who fail to meet this criterion shall be required to withdraw from Engineering.
See Section 3.13 for the complete policy
<http://crscalprod.ad.umanitoba.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=341&chapterid=4210&topicgroupid=22512&loaduserredits=False>
- According to the U of M's 2013-2014 Applicant Information Bulletin for Engineering, 'All of the Engineering programs have enrolment quotas and, therefore, admission is competitive and not guaranteed. Ranking in the program competitions is based a candidate's average over the best eight final grades that have been achieved from within the list of twelve courses in the preliminary year'.
- At ICM, students will be changed to the Science stream if they do not obtain a grade of C or higher in at least two subject each term, or if they accumulate more than 18 credit hours of F or D grades, making them ineligible for entry to the U of M Engineering program. See Section 3.12 in the U of M Engineering
Calendar: <http://crscalprod1.cc.umanitoba.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=220&chapterid=1496&topicgroupid=10885&loaduserredits=False>

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