

PRICE FACULTY OF ENGINEERING

Fall 2022 Admission Requirement Update

The Department of Chemistry at the University of Manitoba has restructured its course offerings as of the Fall 2021 term. These changes include the deletion of *CHEM 1300 University 1 Chemistry: Structure and Modeling in Chemistry* (3) and the addition of *CHEM 1100 Introductory Chemistry 1: Atomic and Molecular Structure and Energetics*.

Effective for the Fall 2022 intake, admission to undergraduate programs in the Price Faculty of Engineering is based on an admission GPA calculated on the best eight courses of the following twelve from the Preliminary Engineering Program. It is important to review this document in conjunction with the [Applicant Information Bulletin](#) to ensure that you have understood all admission requirements and policies for the intake for which you apply.

| Course Number | Course Title | Credit Hours |
|------------------|--|--------------|
| CHEM 1100 | Introductory Chemistry 1: Atomic and Molecular Structure and Energetics ¹ | 3 |
| COMP 1012 | Computer Programming for Scientists and Engineers | 3 |
| ENG 1430 | Design in 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 ² | 3 |
| MATH 1510 | Applied Calculus 1 (<i>or equivalent</i>) ³ | 3 |
| MATH 1710 | Applied Calculus 2 (<i>or equivalent</i>) ³ | 3 |
| PHIL 1290 | Critical Thinking ⁴ | 3 |
| PHYS 1050 | Physics 1: Mechanics | 3 |
| | Written English Course ^{5 6} | 3 |

NOTES:

- (1) The former CHEM 1300 may be used in lieu of CHEM 1100.
- (2) MATH 1300 is not an acceptable equivalent to MATH 1210.
- (3) Students intending to obtain a degree in Engineering are strongly advised to complete MATH 1510 and MATH 1710. However, MATH 1500 or MATH 1230 may be taken in lieu of MATH 1510; MATH 1700 or MATH 1232 may be taken in lieu of MATH 1710. MATH 1690 fulfills the requirement of both MATH 1510 and MATH 1710.
- (4) PHIL 1290 Critical Thinking is the recommended complementary studies elective. Students may; however, select any course from the Faculties of Arts or Management (Asper School of Business) at the 1000 level or above, except for ARTS 1110 Introduction to University.
- (5) Course selected from the list of approved [Written English Courses for Engineering Students](#).
- (6) Three credit hours are required to satisfy the written English course requirement. Should a student complete a six credit hour course, the additional three credit hours may be used to satisfy general complementary studies requirements within a student's program.
- (7) Equivalent courses offered through Université de Saint-Boniface may be used to satisfy program requirements.