

CHEMISTRY MINOR (B.ENG.) (25 CREDITS)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Engineering

Program credit weight: 25 credits

Program Description

Minor Adviser (program coordinator): Dr. Samuel Sewall (Director of Undergraduate Studies, Chemistry)

A passing grade for courses in the Minor is a C.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
CHEE 310	Physical Chemistry for Engineers. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 233	Topics in Physical Chemistry. ¹	3
CHEM 234	Topics in Organic Chemistry. ²	3

¹ Students choose either CHEM 233 Topics in Physical Chemistry. or

² CHEE 310 Physical Chemistry for Engineers.
or CEGEP equivalent

Complementary Courses

15 credits from the following lists, two courses of which must be laboratory courses

Note that CHEM 212 Introductory Organic Chemistry 1. is a prerequisite for most of the courses listed below, and CHEM 213 Introductory Physical Chemistry 1: Thermodynamics. and CHEM 273 Introductory Physical Chemistry 2: Kinetics and Methods. or their equivalents are prerequisites for the Physical Chemistry courses. If students take CHEM 222 Introductory Organic Chemistry 2., which includes a lab, instead of CHEM 234 Topics in Organic Chemistry., they will receive credit for one of the two required laboratory courses, but they must complete a total of 25 credits in chemistry for the Minor.

Inorganic Chemistry

Expand allContract all

Course	Title	Credits
CHEM 281	Inorganic Chemistry 1.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 591	Bioinorganic Chemistry.	3

Analytical Chemistry

Expand allContract all

Course	Title	Credits
CHEM 267	Introductory Chemical Analysis.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3

Organic Chemistry

Expand allContract all

Course	Title	Credits
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 362	Advanced Organic Chemistry Laboratory. ¹	2
CHEM 482	Organic Chemistry: Natural Products.	3

Physical Chemistry

Expand allContract all

Course	Title	Credits
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry. ¹	3
CHEM 493	Advanced Physical Chemistry Laboratory. ¹	2
CHEM 574	Introductory Polymer Chemistry.	3

¹ indicates lab