



## 7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

### Required Courses (60 credits)

The required courses in this program consist of 60 credits in chemistry, biology and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended.

\* Denotes courses with CEGEP equivalents.

\*\* Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

BIOL 200 Molecular Biology (3 credits)  
BIOL 201 Cell Biology and Metabolism (3 credits)  
CHEM 212 Introductory Organic Chemistry 1 (4 credits) \*  
CHEM 222 Introductory Organic Chemistry 2 (4 credits) \*  
CHEM 223 Introductory Physical Chemistry 1 (2 credits)  
CHEM 243 Introductory Physical Chemistry 2 (2 credits)  
CHEM 253 Introductory Physical Chemistry 1 Laboratory (1 credit)  
CHEM 263 Introductory Physical Chemistry 2 Laboratory (1 credit)  
CHEM 281 Inorganic Chemistry 1 (3 credits)  
CHEM 287 Introductory Analytical Chemistry (2 credits)  
CHEM 297 Introductory Analytical Chemistry Laboratory (1 credit)  
CHEM 302 Introductory Organic Chemistry 3 (3 credits)  
CHEM 345 Molecular Properties and Structure 1 (3 credits)  
CHEM 355 Molecular Properties and Structure 2 (3 credits)  
CHEM 365 Statistical Thermodynamics (2 credits)  
CHEM 367 Instrumental Analysis 1 (3 credits)  
CHEM 377 Instrumental Analysis 2 (3 credits)  
CHEM 381 Inorganic Chemistry 2 (3 credits)  
CHEM 392 Integrated Inorganic/Organic Laboratory (3 credits)  
CHEM 493 Advanced Physical Chemistry Laboratory (2 credits)  
CHEM 502 Advanced Bio-Organic Chemistry (3 credits)  
MATH 222 Calculus 3 (3 credits) \*\*  
MATH 315 Ordinary Differential Equations (3 credits)

Complementary Course (3 credits)

One of:

BIOL 202 Basic Genetics (3 credits)

