



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <p>1.1 <input style="width: 100%;" type="text" value="B.Sc."/></p> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.) <input style="width: 100%;" type="text" value="Chemistry"/></p> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.) <input style="width: 100%;" type="text"/></p> <p>1.4 Category</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Faculty Program (FP) x Major Joint Major Major Concentration (CON) Minor Minor Concentration (CON) </td> <td style="width: 50%; border: none;"> Honours (HON) Joint Honours Component (HC) Internship/Co-op Thesis (T) Non-Thesis (N) Other Please specify <input style="width: 100%;" type="text"/> </td> </tr> </table> <p>1.5 Complete Program Title <input style="width: 100%;" type="text" value="B. Sc. Major in Chemistry"/></p>	Faculty Program (FP) x Major Joint Major Major Concentration (CON) Minor Minor Concentration (CON)	Honours (HON) Joint Honours Component (HC) Internship/Co-op Thesis (T) Non-Thesis (N) Other Please specify <input style="width: 100%;" type="text"/>	<p>2.0 Administering Faculty/Unit <input style="width: 100%;" type="text" value="Faculty of Science"/></p> <p>Offering Faculty/Department <input style="width: 100%;" type="text" value="Science/Chemistry"/></p> <p>3.0 Effective Term of revision or retirement Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409) Retirement</p> <p>Term: 201409</p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: 1px solid black; text-align: center;">59</td> <td style="width: 50%; border: 1px solid black; text-align: center;">59</td> </tr> </table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p>In order to maintain accreditation with the CSC, students are required to take 3 credits of Biological Chemistry/Biochemistry. Adding CHEM 332 to the core program will meet this requirement. In order to keep this change credit-neutral for our students, the new course CHEM 332 will replace 3 credits of complementary courses.</p> <p style="text-align: right; margin-top: 50px;"><input type="checkbox"/></p> </div>	59	59
Faculty Program (FP) x Major Joint Major Major Concentration (CON) Minor Minor Concentration (CON)	Honours (HON) Joint Honours Component (HC) Internship/Co-op Thesis (T) Non-Thesis (N) Other Please specify <input style="width: 100%;" type="text"/>				
59	59				

6.0 Revised Program Description (Maximum 150 words)

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
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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)

Required Courses (53 credits)

The required courses in this program consist of 53 credits in chemistry, physics 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. Physics PHYS 242 should be completed during U2.

* Denotes courses with CEGEP equivalents.

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

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 393 Physical Chemistry Laboratory 2 (2 credits)
MATH 222 Calculus 3 (3 credits)**
MATH 315 Ordinary Differential Equations (3 credits)
PHYS 242 Electricity and Magnetism (2 credits)

Complementary Courses (6 credits)

6 credits of additional Chemistry (CHEM) courses at the 300 level or higher

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 (56 credits)

The required courses in this program consist of 53 credits in chemistry, physics 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.
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CHEM 212 Introductory Organic Chemistry 1 (4 credits) *
CHEM 222 Introductory Organic Chemistry 2 (4 credits) *
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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 332 Biological Chemistry (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 393 Physical Chemistry Laboratory 2 (2 credits)
MATH 222 Calculus 3 (3 credits) **
MATH 315 Ordinary Differential Equations (3 credits)
PHYS 242 Electricity and Magnetism (2 credits)

Complementary Courses (3 credits)

3 credits of additional Chemistry (CHEM) courses at the 300 level or higher

Attach extra page(s) as needed

8.0 Consultation with
Related Units

Yes No

Financial Consult Yes No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department			
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name
Phone
Email
Submission Date

To be completed by ARR:

CIP Code