1.0 Degree Title
Specify the two degrees for concurrent degree programs

1.1 B.Sc.

1.2 Concentration (Legacy = Concentration/Option)
If applicable (30 char. max.)
Chemistry

1.3 Minor (with Concentration, if applicable)
(30 char. max.)

1.4 Category
Faculty Program (FP)  
Honours (HON)  
Joint Honours  
Component (HC)  
Internship/Co-op  
Thesis (T)  
Non-Thesis (N)  
Other  
Please specify

1.5 Complete Program Title
B. Sc. Major in Chemistry

2.0 Administering Faculty/Unit
Faculty of Science

Offering Faculty/Department
Science/Chemistry

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

Term: 201409

4.0 Existing Credit Weight  Proposed Credit Weight
59  59

5.0 Rationale for revised program
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.

6.0 Revised Program Description (Maximum 150 words)
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)

<table>
<thead>
<tr>
<th>Required Courses (53 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 <a href="http://www.chemistry.mcgill.ca/advising/inside/advisors.php">http://www.chemistry.mcgill.ca/advising/inside/advisors.php</a>.</td>
</tr>
<tr>
<td>**CHEM 212 Introductory Organic Chemistry 1 (4 credits) * **</td>
</tr>
<tr>
<td>**CHEM 222 Introductory Organic Chemistry 2 (4 credits) * **</td>
</tr>
<tr>
<td>**CHEM 223 Introduction to Physical Chemistry 1 (2 credits) **</td>
</tr>
<tr>
<td>**CHEM 232 Introduction to Physical Chemistry 2 (2 credits) **</td>
</tr>
<tr>
<td>**CHEM 233 Introduction to Physical Chemistry 1 Laboratory (1 credit) **</td>
</tr>
<tr>
<td>**CHEM 237 Introduction to Physical Chemistry 2 Laboratory (1 credit) **</td>
</tr>
<tr>
<td>**CHEM 238 Inorganic Chemistry 1 (3 credits) **</td>
</tr>
<tr>
<td>**CHEM 239 Inorganic Chemistry 2 (3 credits) **</td>
</tr>
<tr>
<td>**CHEM 297 Introductory Analytical Chemistry Laboratory (1 credit) **</td>
</tr>
<tr>
<td>**CHEM 302 Introductory Organic Chemistry 3 (3 credits) **</td>
</tr>
<tr>
<td>**CHEM 303 Molecular Properties and Structure 1 (3 credits) **</td>
</tr>
<tr>
<td>**CHEM 305 Molecular Properties and Structure 2 (3 credits) **</td>
</tr>
<tr>
<td>**CHEM 335 Statistical Thermodynamics (2 credits) **</td>
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<tr>
<td>**CHEM 367 Instrumental Analysis 1 (3 credits) **</td>
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<tr>
<td>**CHEM 377 Instrumental Analysis 2 (3 credits) **</td>
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<tr>
<td>**CHEM 387 Instrumental Analysis 3 (3 credits) **</td>
</tr>
<tr>
<td>**CHEM 392 Integrated Inorganic/Organic Laboratory (3 credits) **</td>
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<tr>
<td>**CHEM 393 Physical Chemistry Laboratory 2 (2 credits) **</td>
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<tr>
<td>**MATH 222 Calculus 3 (3 credits) **</td>
</tr>
<tr>
<td>**MATH 231 Ordinary Differential Equations (3 credits) **</td>
</tr>
<tr>
<td>**PHYS 242 Electricity and Magnetism (2 credits) **</td>
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<tr>
<th>Complementary Courses (6 credits)</th>
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<td>6 credits of additional Chemistry (CHEM) courses at the 300 level or higher</td>
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Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

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<th>Required Courses (56 credits)</th>
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<td>The required courses in this program consist of 56 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 <a href="http://www.chemistry.mcgill.ca/advising/inside/advisors.php">http://www.chemistry.mcgill.ca/advising/inside/advisors.php</a>.</td>
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</thead>
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<tr>
<td>3 credits of additional Chemistry (CHEM) courses at the 300 level or higher</td>
</tr>
</tbody>
</table>

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. 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.
### 8.0 Consultation with Related Units
- [ ] Yes
- [ ] No

Financial Consult
- [ ] Yes
- [ ] No

Attach list of consultations

### 9. Approvals

<table>
<thead>
<tr>
<th>Routing Sequence</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>Department</td>
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<td>Curric/Acad Committee</td>
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<td>Senate</td>
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Submitted by

- **Name**: Amy S. Blum
- **Phone**: 514-398-6237
- **Email**: amy.blum@mcgill.ca
- **Submission Date**: Oct 18, 2013

To be completed by ARR:

- **CIP Code**

Program/Major or Minor/ Concentration Revision Form P2-3