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<th>1.0 Degree Title</th>
<th>2.0 Administering Faculty/Unit</th>
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<tr>
<td>Specify the two degrees for concurrent degree programs</td>
<td>Science</td>
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<td>B.Sc.</td>
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<th>1.1 Major (Legacy= Subject) (30-char. max.)</th>
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<tr>
<td>Biochemistry</td>
<td>Medicine</td>
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<th>1.2 Concentration (Legacy = Concentration/Option)</th>
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<td>If applicable (30 char. max.)</td>
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<th>1.3 Minor (with Concentration, if applicable) (30 char. max.)</th>
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<th>1.4 Category</th>
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<tr>
<td>☑ Honours (HON)</td>
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<td>☐ Joint Honours Component (HC)</td>
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<td>☐ Internship/Co-op</td>
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<td>☐ Non-Thesis (N)</td>
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<td>☐ Other</td>
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<th>1.5 Complete Program Title</th>
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<tr>
<td>☑ B.Sc. (Honours) in Biochemistry</td>
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<th>2.0 Administering Faculty/Unit</th>
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<tr>
<td>Science</td>
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<tr>
<th>3.0 Effective Term of revision or retirement</th>
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<td>Please give reasons in 5.0“Rationale” in the case of retirement</td>
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<tr>
<td>(Ex. Sept. 2004 = 200409)</td>
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<tr>
<td>☐ Retirement</td>
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<td>Term:</td>
<td>Sept. 2015</td>
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<tr>
<th>4.0 Existing Credit Weight</th>
<th>Proposed Credit Weight</th>
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<tr>
<td>76</td>
<td>73</td>
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<tr>
<th>5.0 Rationale for revised program</th>
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<tbody>
<tr>
<td>Biochemistry is replacing its current full-year U2 introductory laboratory course (BIOC 300D1/D2, 6 credits) with a pair of new 3-credit laboratory courses, BIOC 220 (for Winter U1) and BIOC 320 (for Fall U2). Students in Biochemistry programs will henceforth receive their first exposure to the laboratory practice of biochemistry in Winter U1, when they take their first Biochemistry lecture course (BIOC 212), helping our U1 students to understand better the experimental bases for the material they are learning in lectures. To accommodate this change, we are removing CHEM 287/297 (Intro. Analytical Chemistry/Analytical Chemistry Lab) from our U1 Required Course list but are adding these courses to our U2 and U3 Complementary Course lists. A new course, BIOC 470, is added to the U3 Complementary list while BIOC 570 is deleted.</td>
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<tr>
<th>6.0 Revised Program Description (Maximum 150 words)</th>
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<tbody>
<tr>
<td>(None)</td>
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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)

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

See attached.
HONOURS PROGRAM (76 CREDITS)

U1 Year (29 credits)

U1 Required Courses (23 credits)
*Note: Students with CEGEP-level credit for the equivalents of CHEM 212 and/or CHEM 222 may not take these courses at McGill and should replace them with elective courses to satisfy the total credit requirement for their degree.

- BIOC 212: Molec Mechanisms of Cell Funct
- BIOL 200: Molecular Biology
- BIOL 202: Basic Genetics
- CHEM 204: Physical Chem./Biol. Sci. 1
- CHEM 212: Intro Organic Chemistry 1
- CHEM 222: Intro Organic Chemistry 2
- CHEM 287: Intro Analytical Chemistry
- CHEM 207: Intro Analytical Chem Lab

U1 Complementary Courses (6 credits)
- BIOL 205: Biology of Organisms
- MIMM 211: Introductory Microbiology
- PHGY 209: Mammalian Physiology 1
- PHGY 210: Mammalian Physiology 2

U2 Year (26 credits)

U2 Required Courses (20 credits)
- ANAT 262: Intro. Molecular & Cell Biol
- BIOC 300D1: Laboratory in Biochemistry
- BIOC 300D2: Laboratory in Biochemistry
- BIOC 311: Metabolic Biochemistry
- BIOC 312: Biochemistry of Macromolecules
- CHEM 214: Physical Chem./Biol. Sci. 2
- CHEM 212: Intro Organic Chemistry 1
- CHEM 222: Intro Organic Chemistry 2
- CHEM 287: Intro Analytical Chemistry
- CHEM 297: Intro Analytical Chem Lab

U2 Complementary Courses (3 credits)
- BIOL 309: Mathematical Models in Biology
- BIOL 373: Biometry
- COMP 202: Foundations of Programming
- MATH 203: Principles of Statistics 1
- MATH 222: Calculus 3
- PSYC 204: Intro. to Psychological Stats

(Proposed Revised Program)

HONOURS PROGRAM (73 CREDITS)

U1 Year (29 credits)

U1 Required Courses (23 credits)
*Note: Students with CEGEP-level credit for the equivalents of CHEM 212 and/or CHEM 222 may not take these courses at McGill and should replace them with elective courses to satisfy the total credit requirement for their degree.

- BIOC 212: Molec Mechanisms of Cell Funct
- BIOL 200: Molecular Biology
- BIOL 202: Basic Genetics
- CHEM 204: Physical Chem./Biol. Sci. 1
- CHEM 212: Intro Organic Chemistry 1
- CHEM 222: Intro Organic Chemistry 2
- CHEM 287: Intro Analytical Chemistry
- CHEM 297: Intro Analytical Chem Lab

U1 Complementary Courses (6 credits)
- BIOL 205: Biology of Organisms
- MIMM 211: Introductory Microbiology
- PHGY 209: Mammalian Physiology 1
- PHGY 210: Mammalian Physiology 2

U2 Year (23 credits)

U2 Required Courses (20 credits)
- ANAT 262: Intro. Molecular & Cell Biol
- BIOC 300: Laboratory in Biochemistry 1
- BIOL 200: Molecular Biology
- BIOL 202: Basic Genetics
- CHEM 204: Physical Chem./Biol. Sci. 1
- CHEM 212: Intro Organic Chemistry 1
- CHEM 222: Intro Organic Chemistry 2
- CHEM 287: Intro Analytical Chemistry
- CHEM 297: Intro Analytical Chem Lab

U2 Complementary Courses (3 credits)
- BIOL 309: Mathematical Models in Biology
- BIOL 373: Biometry
- COMP 202: Foundations of Programming
- MATH 203: Principles of Statistics 1
- MATH 222: Calculus 3
- PSYC 204: Intro. to Psychological Stats
### Existing program, cont.'d

**U3 Year (21 credits)**

**U3 Required Courses (15 credits)**
- BIOC 404: Biophysical Chemistry 3
- BIOC 450: Protein Structure and Function 3
- BIOC 454: Nucleic Acids 3
- BIOC 462: Research Lab in Biochemistry 6

**U3 Complementary Courses (6 credits)**

3-6 credits selected from:
- BIOC 458: Membranes & Cellular Signaling 3
- BIOC 491: Independent Research 6
- BIOC 503: Immunochemistry 3
- PSYT 455: Neurochemistry 3

The remainder, if any, from:
- BIOC 570: Biochemistry of Lipoproteins 3
- BIOL 300: Molecular Biology of the Gene 3
- BIOL 303: Developmental Biology 3
- BIOL 304: Evolution 3
- BIOL 313: Eukaryotic Cell Biology 3
- BIOL 314: Molecular Biology of Oncogenes 3
- CHEM 382: Organic Chem:Natural Products 3
- CHEM 502: Advanced Bio-organic Chemistry 3
- CHEM 532: Structural Organic Chemistry 3
- CHEM 552: Physical Organic Chem 3
- CHEM 572: Synthetic Organic Chem 3
- MIMM 214: Intro Immun: Elem of Immunity 3
- MIMM 324: Fundamental Virology 3
- PHAR 300: Drug Action 3
- PHGY 311: Channels, Synapses and Hormones 3

### Proposed revised program, cont.'d

**U3 Year (21 credits)**

**U3 Required Courses (15 credits)**
- BIOC 404: Biophysical Chemistry 3
- BIOC 450: Protein Structure & Function 3
- BIOC 454: Nucleic Acids 3
- BIOC 462: Research Lab in Biochemistry 6

**U3 Complementary Courses (6 credits)**

3-6 credits selected from:
- BIOC 458: Membranes & Cellular Signaling 3
- BIOC 470: Intro to Lipids & Lipoproteins 3
- BIOC 491: Independent Research 6
- BIOC 503: Immunochemistry 3
- PSYT 455: Neurochemistry 3

The remainder, if any, from:
- BIOC 570: Biochemistry of Lipoproteins 3
- BIOL 300: Molecular Biology of the Gene 3
- BIOL 303: Developmental Biology 3
- BIOL 304: Evolution 3
- BIOL 313: Eukaryotic Cell Biology 3
- BIOL 314: Molecular Biology of Oncogenes 3
- CHEM 287: Intro Analytical Chemistry 2
- CHEM 297: Intro Analytical Chem Lab 1
- CHEM 382: Organic Chem:Natural Products 3
- CHEM 502: Advanced Bio-organic Chemistry 3
- CHEM 532: Structural Organic Chemistry 3
- CHEM 552: Physical Organic Chem 3
- CHEM 572: Synthetic Organic Chem 3
- MIMM 214: Intro Immun: Elem of Immunity 3
- MIMM 324: Fundamental Virology 3
- PHAR 300: Drug Action 3
- PHGY 311: Channels, Synapses and Hormones 3
8.0 Consultation with Related Units: Yes □ No  
Financial Consult: □ Yes □ No  
Attach list of consultations

9. Approvals

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<th>Routing Sequence</th>
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<tbody>
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<td>Curric/Acad Committee</td>
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Submitted by

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<tr>
<th>Name</th>
<th>Phone</th>
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<th>Submission Date</th>
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To be completed by ARR:

CIP Code

10. FQRSC (Research) Indicator (for GPS): Yes □ No
Consult Reports – Pending from the Department of Chemistry; will forward when received.

Financial Consult – currently conferring with Office of the Budget as to whether a formal Financial Consult is required; if so, will submit one before the end of Feb. (according to the Guidelines, submission of a Financial Consult is not required prior to review by BSCC or AC, only prior to review by SCTP).