This program requires MIMM 212 Laboratory in Microbiology and the previous 2 credits for MIMM 212 will increase to 3 credits. (Improvements to MIMM 212 have substantially increased the student’s workload.) Therefore the program credit weight must also be increased by 1 credit.

Only the credit requirement is being increased. Otherwise the program remains the same.
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)

**U1 Required Courses (25 credits)**
- Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).
- Students who have taken CHEM 222 in CEGEP are exempt and must replace these credits with an elective course(s).
  - BIOL 200 Molecular Biology (3 credits)
  - BIOL 202 Basic Genetics (3 credits)
  - CHEM 210 Introductory Organic Chemistry 1 (4 credits) *
  - CHEM 222 Introductory Organic Chemistry 2 (4 credits) **
  - MIMM 211 Introductory Microbiology (3 credits)
  - MIMM 212 Laboratory in Microbiology (2 credits)
  - MIMM 214 Introductory Immunology: Elements of Immunity (3 credits)

One of:
- BIOC 212 Molecular Mechanisms of Cell Function (3 credits)
- BIOL 201 Cell Biology and Metabolism (3 credits)

**U1, U2 or U3 Required Course (3 credits)**

One of:
- BIOL 373 Biometry (3 credits)
- MATH 203 Principles of Statistics 1 (3 credits)
- PSYC 204 Introduction to Psychological Statistics (3 credits)

**U2 Required Courses (21 credits)**
- BIOC 311 Metabolic Biochemistry (3 credits)
- BIOC 312 Biochemistry of Macromolecules (3 credits)
- MIMM 314 Intermediate Immunology (3 credits)
- MIMM 323 Microbial Physiology (3 credits)
- MIMM 324 Fundamental Virology (3 credits)
- MIMM 386D1 Laboratory in Microbiology and Immunology (3 credits)
- MIMM 386D2 Laboratory in Microbiology and Immunology (3 credits)

**U3 Required Courses (21 credits)**
- MIMM 413 Parasitology (3 credits)
- MIMM 465 Bacterial Pathogenesis (3 credits)
- MIMM 466 Viral Pathogenesis (3 credits)
- MIMM 502D1 Honours Research Project in Microbiology (6 credits)
- MIMM 502D2 Honours Research Project in Microbiology (6 credits)

**Complementary Course (3 credits)**
- 3 credits selected from:
  - ANAT 458 Membranes and Cellular Signaling (3 credits)
  - BIOC 404 Biophysical Chemistry (3 credits)
  - BIOC 450 Protein Structure and Function (3 credits)
  - BIOC 454 Nucleic Acids (3 credits)
  - BIOL 458 Membranes and Cellular Signaling (3 credits)

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

**U1 Required Courses (26 credits)**
- Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).
- Students who have taken CHEM 222 in CEGEP are exempt and must replace these credits with an elective course(s).
  - BIOL 200 Molecular Biology (3 credits)
  - BIOL 202 Basic Genetics (3 credits)
  - CHEM 210 Introductory Organic Chemistry 1 (4 credits) *
  - CHEM 222 Introductory Organic Chemistry 2 (4 credits) **
  - MIMM 211 Introductory Microbiology (3 credits)
  - MIMM 212 Laboratory in Microbiology (3 credits)
  - MIMM 214 Introductory Immunology: Elements of Immunity (3 credits)

One of:
- BIOC 212 Molecular Mechanisms of Cell Function (3 credits)
- BIOL 201 Cell Biology and Metabolism (3 credits)

**U1, U2 or U3 Required Course (3 credits)**

One of:
- BIOL 373 Biometry (3 credits)
- MATH 203 Principles of Statistics 1 (3 credits)
- PSYC 204 Introduction to Psychological Statistics (3 credits)

**U2 Required Courses (21 credits)**
- BIOC 311 Metabolic Biochemistry (3 credits)
- BIOC 312 Biochemistry of Macromolecules (3 credits)
- MIMM 314 Intermediate Immunology (3 credits)
- MIMM 323 Microbial Physiology (3 credits)
- MIMM 324 Fundamental Virology (3 credits)
- MIMM 386D1 Laboratory in Microbiology and Immunology (3 credits)
- MIMM 386D2 Laboratory in Microbiology and Immunology (3 credits)

**U3 Required Courses (21 credits)**
- MIMM 413 Parasitology (3 credits)
- MIMM 465 Bacterial Pathogenesis (3 credits)
- MIMM 466 Viral Pathogenesis (3 credits)
- MIMM 502D1 Honours Research Project in Microbiology (6 credits)
- MIMM 502D2 Honours Research Project in Microbiology (6 credits)

**Complementary Course (3 credits)**
- 3 credits selected from:
  - ANAT 458 Membranes and Cellular Signaling (3 credits)
  - BIOC 404 Biophysical Chemistry (3 credits)
  - BIOC 450 Protein Structure and Function (3 credits)
  - BIOC 454 Nucleic Acids (3 credits)
  - BIOL 458 Membranes and Cellular Signaling (3 credits)
9. Approvals

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<tr>
<td>Department</td>
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<tr>
<td>Faculty 1</td>
<td>Paul Legsdin</td>
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<td>Oct. 29/2012</td>
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<tr>
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<td>P.C. Unn</td>
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<td>Nov. 6/12</td>
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Submitted by

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<thead>
<tr>
<th>Name</th>
<th>Greg Marczynski</th>
<th>To be completed by ARR:</th>
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<tbody>
<tr>
<td>Phone</td>
<td>514 398 3917</td>
<td>CIP Code</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:Gmarmczynski@mcnil.ca">Gmarmczynski@mcnil.ca</a></td>
<td></td>
</tr>
<tr>
<td>Submission Date</td>
<td>223 Oct 2012</td>
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