



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <p>1.1 B.Sc. Honours in Microbiology & Immunology</p> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <p>1.4 Category</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Faculty Program (FP)</td> <td>Honours (HON) X</td> </tr> <tr> <td>Major</td> <td>Joint Honours</td> </tr> <tr> <td>Joint Major</td> <td>Component (HC)</td> </tr> <tr> <td>Major Concentration (CON)</td> <td>Internship/Co-op</td> </tr> <tr> <td>Minor</td> <td>Thesis (T)</td> </tr> <tr> <td>Minor Concentration (CON)</td> <td>Non-Thesis (N)</td> </tr> <tr> <td></td> <td>Other</td> </tr> <tr> <td></td> <td>Please specify</td> </tr> </table> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> <p>1.5 B.Sc. Honours in Microbiology & Immunology</p>	Faculty Program (FP)	Honours (HON) X	Major	Joint Honours	Joint Major	Component (HC)	Major Concentration (CON)	Internship/Co-op	Minor	Thesis (T)	Minor Concentration (CON)	Non-Thesis (N)		Other		Please specify	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Science/Microbiology & Immunology</div> <p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Medicine/Microbiology & Immunology</div> <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: 201209</p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; width: 40%; text-align: center;">73</div> <div style="border: 1px solid black; padding: 2px; width: 40%; text-align: center;">73</div> </div> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 10px; margin-top: 5px;"> <p>A new required U1 course, MMM 214, Introduction to Immunology: Elements of Immunity, has been introduced. The requirement for CHEM 203/204 has been removed, and these courses will be added to the Complementary Course list.</p> <div style="text-align: right; margin-top: 20px;"><input type="checkbox"/></div> </div>
Faculty Program (FP)	Honours (HON) X																
Major	Joint Honours																
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Minor Concentration (CON)	Non-Thesis (N)																
	Other																
	Please specify																

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)

Honours Microbiology and Immunology (73 credits)

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 (3) Molecular Biology
BIOL 202 (3) Basic Genetics
CHEM 212* (4) Introductory Organic Chemistry 1
CHEM 222** (4) Introductory Organic Chemistry 2
MIMM 211 (3) Introductory Microbiology
MIMM 212 (2) Laboratory in Microbiology

One of:

BIOC 212 (3) Molecular Mechanisms of Cell Function
BIOL 201 (3) Cell Biology and Metabolism

One of:

CHEM 203 (3) Survey of Physical Chemistry
CHEM 204 (3) Physical Chemistry/Biological Sciences 1

U1, U2 or U3 Required Course (3 credits)

One of:

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

U2 Required Courses (21 credits)

BIOC 311 (3) Metabolic Biochemistry
BIOC 312 (3) Biochemistry of Macromolecules
MIMM 314 (3) Immunology
MIMM 323 (3) Microbial Physiology
MIMM 324 (3) Fundamental Virology
MIMM 386D1 (3) Laboratory in Microbiology and Immunology
MIMM 386D2 (3) Laboratory in Microbiology and Immunology

U3 Required Courses (21 credits)

MIMM 413 (3) Parasitology
MIMM 465 (3) Bacterial Pathogenesis
MIMM 466 (3) Viral Pathogenesis
MIMM 502D1 (6) Honours Research Project in Microbiology
MIMM 502D2 (6) Honours Research Project in Microbiology

Complementary Course (3 credits)

3 credits selected from:

ANAT 458 (3) Membranes and Cellular Signaling
BIOC 404 (3) Biophysical Chemistry
BIOC 450 (3) Protein Structure and Function
BIOC 454 (3) Nucleic Acids
BIOC 458 (3) Membranes and Cellular Signaling
BIOL 520 (3) Gene Activity in Development
BIOT 505 (3) Selected Topics in Biotechnology
MIMM 414 (3) Advanced Immunology
MIMM 509 (3) Inflammatory Processes
PHAR 562 (3) General Pharmacology 1
PHAR 563 (3) General Pharmacology 2
PSYT 455 (3) Neurochemistry

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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PHAR 563 (3) General Pharmacology 2
PSYT 455 (3) Neurochemistry

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	<input type="text"/>	<input type="text"/>	<input type="text"/>
Curric/Acad Committee	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
SCTP	<input type="text"/>	<input type="text"/>	<input type="text"/>
GS	<input type="text"/>	<input type="text"/>	<input type="text"/>
APPC	<input type="text"/>	<input type="text"/>	<input type="text"/>
Senate	<input type="text"/>	<input type="text"/>	<input type="text"/>

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code