



<p>1.0 BSc Liberal – Core Science Component in Microbiology & Immunology</p> <p>1.1 Core Science Component in Microbiology & Immunology</p> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <p>1.4 Category</p> <table border="0"> <tr> <td>Faculty Program (FP)</td> <td>Honours (HON)</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> <tr> <td></td> <td style="border: 1px solid black; text-align: center;">Core Science Component</td> </tr> </table> <p>1.5 BSc Liberal – Core Science Component in Microbiology & Immunology</p>	Faculty Program (FP)	Honours (HON)	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		Core Science Component	<p>2.0 Administering Faculty/Unit</p> <p style="border: 1px solid black; text-align: center;">Science/Microbiology & Immunology</p> <p>Offering Faculty/Department</p> <p style="border: 1px solid black; text-align: center;">Medicine/Microbiology & Immunology</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: 201209</p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 50%; padding: 2px;">48</td> <td style="width: 50%; padding: 2px;">48</td> </tr> </table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 10px;"> <p>A new required U1 course, MIMM 214, Introduction to Immunology: Elements of Immunity, has been introduced. As a result, the required U1 course credits have been increased from 15 to 18 credits, and the U1, U2 or U3 Complementary courses (ANAT 261, ANAT 262, ANAT 365...PHGY 210) have been decreased by three credits (from 6 to 3 credits).</p> <p style="text-align: right;"><input type="checkbox"/></p> </div>	48	48
Faculty Program (FP)	Honours (HON)																				
Major	Joint Honours																				
Joint Major	Component (HC)																				
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	Please specify																				
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48	48																				

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,

U1 Required Courses (15 credits)

* Students who have taken CHEM 212 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
MIMM 211 (3) Introductory Microbiology
MIMM 212 (2) Laboratory in Microbiology

U1 Complementary Course (3 credits)

3 credits, select one from:

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

U1, U2 or U3 Required Course (3 credits)

3 credits, select one from:

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

U2 Required Courses (15 credits)

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 Complementary Courses (6 credits)

6 credits selected from:

MIMM 387 (3) Applied Microbiology and Immunology
MIMM 413 (3) Parasitology
MIMM 414 (3) Advanced Immunology
MIMM 465 (3) Bacterial Pathogenesis
MIMM 466 (3) Viral Pathogenesis
MIMM 509 (3) Inflammatory Processes

U1, U2 or U3 Complementary Courses (6 credits)

6 credits selected from:

Students may take either ANAT 458 or BIOC 458, but not both.
Students may take either CHEM 203 or CHEM 204, but not both.
** Students who have taken CHEM 212 or CHEM 222 in CEGEP must replace it with another complementary course.
ANAT 261 (4) Introduction to Dynamic Histology
ANAT 262 (3) Introductory Molecular and Cell Biology
ANAT 365 (3) Cellular Trafficking
ANAT 458 (3) Membranes and Cellular Signaling
BIOC 311 (3) Metabolic Biochemistry
BIOC 312 (3) Biochemistry of Macromolecules
BIOC 450 (3) Protein Structure and Function
BIOC 454 (3) Nucleic Acids
BIOC 458 (3) Membranes and Cellular Signaling
BIOL 300 (3) Molecular Biology of the Gene
BIOL 314 (3) Molecular Biology of Oncogenes
BIOT 505 (3) Selected Topics in Biotechnology
CHEM 203 (3) Survey of Physical Chemistry
CHEM 204 (3) Physical Chemistry/Biological Sciences 1
CHEM 222** (4) Introductory Organic Chemistry 2
CHEM 302 (3) Introductory Organic Chemistry 3
EXMD 504 (3) Biology of Cancer
MIMM 387 (3) Applied Microbiology and Immunology
MIMM 413 (3) Parasitology
MIMM 414 (3) Advanced Immunology
MIMM 465 (3) Bacterial Pathogenesis
MIMM 466 (3) Viral Pathogenesis
MIMM 509 (3) Inflammatory Processes
PATH 300 (3) Human Disease
PHAR 300 (3) Drug Action
PHAR 301 (3) Drugs and Disease
PHGY 209 (3) Mammalian Physiology 1
PHGY 210 (3) Mammalian Physiology 2

Attach extra page(s) as needed

U1 Required Courses (18 credits)

* Students who have taken CHEM 212 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
MIMM 211 (3) Introductory Microbiology
MIMM 212 (2) Laboratory in Microbiology

MIMM 214 (3) Introduction to Immunology: Elements of Immunity

U1 Complementary Course (3 credits)

3 credits, select one from:

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

U1, U2 or U3 Required Course (3 credits)

3 credits, select one from:

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

U2 Required Courses (15 credits)

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 Complementary Courses (6 credits)

6 credits selected from:

MIMM 387 (3) Applied Microbiology and Immunology
MIMM 413 (3) Parasitology
MIMM 414 (3) Advanced Immunology
MIMM 465 (3) Bacterial Pathogenesis
MIMM 466 (3) Viral Pathogenesis
MIMM 509 (3) Inflammatory Processes

U1, U2 or U3 Complementary Courses (3 credits)

3 credits selected from:

Students may take either ANAT 458 or BIOC 458, but not both.
Students may take either CHEM 203 or CHEM 204, but not both.
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ANAT 261 (4) Introduction to Dynamic Histology
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PHGY 209 (3) Mammalian Physiology 1
PHGY 210 (3) Mammalian Physiology 2

8.0 Consultation with
Related Units

Yes No

Financial Consult Yes No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department	Joaquin Madrenas, Chair		
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