

Program/Major or Minor/Concentration Revision Form

	(07/2004						
1.0 Degree Title	2.0 Administering Faculty/Unit						
Specify the two degrees for concurrent degree programs	Science/Microbiology & Immunology						
	Offering Faculty/Department						
1.1 B.Sc. Major in Microbiology & Immunology	Medicine/Microbiology & Immunology						
1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.) 1.3 Minor (with Concentration, if applicable) (30 char. max.) 1.4 Category Faculty Program (FP) Honours (HON) Major X Joint Honours Joint Major Component (HC) Minor Thesis (T) Minor Concentration (CON) Non-Thesis (N)	 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: 201209 4.0 Existing Credit Weight Proposed Credit Weight 67 5.0 Rationale for revised program 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. 						
1.5 BSc Major in Microbiology & Immunology							
6.0 Provised 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)

Major Microbiology and Immunology (67 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 Microbiology
MIMM 211 (3) Introductory 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 (9 credits)

MIMM 413 (3) Parasitology MIMM 465 (3) Bacterial Pathogenesis MIMM 466 (3) Viral Pathogenesis

Complementary Courses (9 credits)

9 credits selected from: * Students may select either ANAT 458 or BIOC 458, but not both 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 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 302 (3) Introductory Organic Chemistry 3 EXMD 504 (3) Biology of Cancer MIMM 387 (3) Applied Microbiology and Immunology MIMM 414 (3) Advanced Immunology 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 Attach extra page(s) as needed

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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BIOL 200 (3) Molecular Biology
BIOL 202 (3) Basic Genetics
CHEM 212* (4) Introductory Organic Chemistry 1
CHEM 222** (4) Introductory Microbiology
MIMM 211 (3) Introductory in Microbiology
MIMM 214 (3) Introduction to Immunology:

Elements of Immunity

One of:

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

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 (9 credits)

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8.0 Consultation with Related Units	□ Yes □ No Financial Consult □ Yes □ No		; 🗆 No				
Attach list of consultations							
9. Approvals							
Routing Sequence		Name	Signature		Date		
Department							
Curric/Acad Committee							
Faculty 1							
Faculty 2							
Faculty 3							
SCTP							
GS							
APPC							
Senate							
Submitted by							
Name			To be completed by ARR:				
Phone			CIP Code				
Email							
Submission Date							