



1.0 Degree Title
Specify the two degrees for concurrent degree programs

B.Sci. Honours in Microbiology and Immunology

1.1 Major (Legacy= Subject) (30-char. max.)

1.2 []
If applicable (30 char. max.)

[] []

1.3 Minor (with Concentration, if applicable)
(30 char. max.)

[]

1.4 Category

[]

- | | |
|---------------------------|-----------------------|
| 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 |

[] []

1.5 Complete Program Title
B.Sci. Honours in Microbiology and Immunology

2.0 Administering Faculty/Unit

Science/ Microbiology and Immunology

Offering Faculty/Department

Medicine/Microbiology and Immunology

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: 201309

4.0 Existing Credit Weight Proposed Credit Weight

73

74

5.0 Rationale for revised program

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.

6.0 Revised Program Description (Maximum 150 words)

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 212 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 I (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)
- BIOC 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 212 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 I (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)

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 | Joaquim Madrenas | <i>Joaquim Madrenas</i> | Oct. 29/2012 |
| Curric/Acad Committee | | | |
| Faculty 1 | David Regisdale | <i>David Regisdale</i> | Nov 6/12 |
| Faculty 2 | E.C. Davis | <i>E.C. Davis</i> | Nov 6/12 |
| Faculty 3 | | | |
| SCTP | | | |
| GS | | | |
| APPC | | | |
| Senate | | | |

Submitted by

| | | |
|-----------------|------------------------------|-------------------------|
| Name | Grea Marczvnski | To be completed by ARR: |
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| Submission Date | 223 Oct 2012 | |