1.0 Degree Title
Specify the two degrees for concurrent degree programs

Bachelor of Science (B.Sc.)

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

Major Anatomy and Cell Biology

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)
- Joint Honours
- Component (HC)
- Internship/Co-op
- Thesis (T)
- Non-Thesis (N)
- Other
- Please specify

Major X

1.5 Bachelor of Science (B.Sc.) Major Anatomy and Cell Biology

2.0 Administering Faculty/Unit

Science / Medicine

Offering Faculty/Department

Medicine / Anatomy & Cell Biology

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:

201409

4.0 Existing Credit Weight

Proposed Credit Weight

67 credits

67 credits

5.0 Rationale for revised program

The changes will provide more specialization in the Complementary Required courses (Advanced Anatomy) by keeping the focus on ANAT courses. The Biologically Oriented courses give the opportunity to acquire varied knowledge within the Biomedical science.

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)

Offered by: Anatomy and Cell Biology Degree: Bachelor of Science
Program Requirements
Required Courses (43 credits)
Note: ANAT 261 must be taken in U1.
* Students who have taken the equivalent of CHEM 212, CHEM 222, and/or MATH 203 in CEGEP (as defined at http://www.mcgill.ca/students/courses/plan/transfer/) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

BIOL 200 Molecular Biology (3 credits)
BIOL 202 Basic Genetics (3 credits)
BIOL 203 Introductory Molecular and Cell Biology (3 credits)
CHEM 212 Introductory Organic Chemistry 1 (4 credits) *
CHEM 222 Introductory Organic Chemistry 2 (4 credits) *
MIMM 214 Introductory Immunology: Elements of Immunity (3 credits)
PHGY 209 Mammalian Physiology 1 (3 credits)
PHGY 210 Mammalian Physiology 2 (3 credits)

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

Complementary Courses (24 credits)
Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:
- ANAT 321 Circuitry of the Human Brain (3 credits)
- ANAT 322 Neuroendocrinology (3 credits)
- ANAT 365 Cellular Trafficking (3 credits)
- ANAT 416 Development, Disease and Regeneration (3 credits)
- ANAT 458 Membranes and Cellular Signaling (3 credits)
- ANAT 541 Cell and Molecular Biology of Aging (3 credits)
- ANAT 565 Diseases-Membrane Trafficking (3 credits)
- MIMM 314 Intermediate Immunology (3 credits)
- NEUR 310 Cellular Neurobiology (3 credits)

12 credits of biologically oriented courses (BOC) selected from:
- ANAT 322 Neuroendocrinology (3 credits)
- ANAT 365 Cellular Trafficking (3 credits)
- ANAT 381 Basis of Embryology (3 credits)
- ANAT 416 Development, Disease and Regeneration (3 credits)
- ANAT 458 Membranes and Cellular Signaling (3 credits)
- ANAT 541 Cell and Molecular Biology of Aging (3 credits)
- BIOL 373 Biometry (3 credits)
- BIOL 450 Protein Structure and Function (3 credits)
- BIOL 520 Molecular Biology (3 credits)
- BIOL 545 Genetic Basis of Life Span (3 credits)
- BIOL 546 Genetics of Model Systems (3 credits)
- BIOL 551 Principles of Cellular Control (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)

Offered by: Anatomy and Cell Biology Degree: Bachelor of Science
Program Requirements
Required Courses (43 credits)
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- BIOL 551 Principles of Cellular Control (3 credits)
Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

- BIOL 546 Genetics of Model Systems (3 credits)
- BIOL 551 Principles of Cellular Control (3 credits)
- BIOL 575 Human Biochemical Genetics (3 credits)
- BIOT 505 Selected Topics in Biotechnology (3 credits)
- EXMD 401 Physiology and Biochemistry Endocrine Systems (3 credits)
- EXMD 502 Advanced Endocrinology 01 (3 credits)
- EXMD 503 Advanced Endocrinology 02 (3 credits)
- EXMD 504 Biology of Cancer (3 credits)
- EXMD 506 Advanced Applied Cardiovascular Physiology (3 credits)
- EXMD 507 Advanced Applied Respiratory Physiology (3 credits)
- EXMD 508 Advanced Topics in Respiration (3 credits)
- MIMM 314 Intermediate Immunology (3 credits)
- MIMM 323 Microbial Physiology (3 credits)
- MIMM 324 Fundamental Virology (3 credits)
- MIMM 387 The Business of Science (3 credits)
- MIMM 413 Parasitology (3 credits)
- MIMM 414 Advanced Immunology (3 credits)
- MIMM 465 Bacterial Pathogenesis (3 credits)
- MIMM 466 Viral Pathogenesis (3 credits)
- MIMM 509 Inflammatory Processes (3 credits)
- PATH 300 Human Disease (3 credits)
- PHAR 300 Drug Action (3 credits)
- PHAR 301 Drugs and Disease (3 credits)
- PHAR 303 Principles of Toxicology (3 credits)
- PHAR 562 General Pharmacology 1 (3 credits)
- PHGY 311 Channels, Synapses & Hormones (3 credits)
- PHGY 312 Respiratory, Renal, & Cardiovascular Physiology (3 credits)
- PHGY 313 Blood, Gastrointestinal, & Immune Systems Physiology (3 credits)
- PHGY 314 Integrative Neuroscience (3 credits)
- PHGY 451 Advanced Neurophysiology (3 credits)
- PHGY 502 Exercise Physiology (3 credits)
- PHGY 508 Advanced Renal Physiology (3 credits)
- PHGY 513 Cellular Immunology (3 credits)
- PHGY 515 Physiology of Blood 1 (3 credits)
- PHGY 516 Physiology of Blood 2 (3 credits)
- PHGY 517 Artificial Internal Organs (3 credits)
- PHGY 556 Topics in Systems Neuroscience (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)

- BIOL 575 Human Biochemical Genetics (3 credits)
- BIOL 588 Advances in Molecular/Cellular Neurobiology (3 credits)
- EXMD 401 Physiology and Biochemistry Endocrine Systems (3 credits)
- EXMD 502 Advanced Endocrinology 01 (3 credits)
- EXMD 503 Advanced Endocrinology 02 (3 credits)
- EXMD 504 Biology of Cancer (3 credits)
- EXMD 506 Advanced Applied Cardiovascular Physiology (3 credits)
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- PHGY 516 Physiology of Blood 2 (3 credits)
- PHGY 517 Artificial Internal Organs (3 credits)
- PHGY 556 Topics in Systems Neuroscience (3 credits)
- PSYT 455 Neurochemistry (3 credits)
- PSYT 500 Advances: Neuropsychology of Mental Disorders (3 credits)

Attach extra page(s) as needed
8.0 Consultation with Related Units
☐ Yes ☒ No

Attach list of consultations

9. Approvals
Routing Sequence

<table>
<thead>
<tr>
<th>Department</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>CRA/Cr Mandato</td>
<td></td>
<td>[Signature]</td>
<td>Nov 26, 2013</td>
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| Curric/Acad Committee       |            |           |              |
| Faculty 1                   |            |           |              |
| Faculty 2                   |            |           |              |
| Faculty 3                   |            |           |              |
| SCTP                        |            |           |              |
| GS                          |            |           |              |
| APPC                        |            |           |              |
| Senate                      |            |           |              |

Submitted by

<table>
<thead>
<tr>
<th>Name</th>
<th>Vittoria Catania</th>
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<tbody>
<tr>
<td>Phone</td>
<td>514-395-6636</td>
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<tr>
<td>Email</td>
<td><a href="mailto:Vittoria.catania@mccoll.ca">Vittoria.catania@mccoll.ca</a></td>
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</tbody>
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To be completed by ARR:

CIP Code