1.0 Degree Title
Specify the two degrees for concurrent degree programs

1.1 Bachelor of Science

1.2 Concentration (Legacy = Concentration/Option)
If applicable (30 char. max.)

Physiology

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

1.4 Category

<table>
<thead>
<tr>
<th>Liberal Program</th>
<th>X Honours (HON)</th>
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<tbody>
<tr>
<td>Faculty Program (FP)</td>
<td>Joint Honours Component (HC)</td>
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<td>Internship/Co-op</td>
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<td>Major Concentration (CON)</td>
<td>Non-Thesis (N)</td>
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<tr>
<td>Minor</td>
<td>Other</td>
</tr>
<tr>
<td>Minor Concentration (CON)</td>
<td>Please specify</td>
</tr>
</tbody>
</table>

1.5 B.Sc.: Honours in Physiology

2.0 Administering Faculty/Unit

| Faculty of Science |

2.1 Offering Faculty/Department

| Faculty of Medicine/Department of Physiology |

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

| 75 | 75 |

5.0 Rationale for revised program

The changes will provide more flexibility through an increase in the number of complementary courses available to enhance competence and satisfy interest in areas useful to the current population of students in a biomedical program.

6.0 Revised Program Description (Maximum 150 words)
### Honours in Physiology (75 credits)

#### Required Courses (60 credits)
- Students who have taken CHEM 212 and/or CHEM 222 in CEGEP are exempted and must replace these credits with an elective course(s).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
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<td>BIOL 301</td>
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</tr>
<tr>
<td>CHEM 212</td>
<td>Introductory Organic Chemistry 1</td>
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</tr>
<tr>
<td>CHEM 222</td>
<td>Introductory Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>PHGY 209</td>
<td>Mammalian Physiology 1</td>
<td>3</td>
</tr>
<tr>
<td>PHGY 210</td>
<td>Mammalian Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td>PHGY 212</td>
<td>Introductory Physiology Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>PHGY 213</td>
<td>Introductory Physiology Laboratory 2</td>
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</tr>
<tr>
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<td>PHGY 313</td>
<td>Blood, Gastrointestinal, &amp; Immune Systems Physiology</td>
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<td>Integrative Neuroscience</td>
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<tr>
<td>PHGY 351</td>
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<tr>
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<tr>
<td>PHGY 459D1</td>
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<tr>
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#### Complementary Courses (15 credits)

9 credits selected as follows:

3 credits selected from:
- BIOL 212 Molecular Mechanisms of Cell Function (3 credits)
- BIOL 201 Cell Biology and Metabolism (3 credits)

3 credits selected from:
- BIOL 309 Mathematical Models in Biology (3 credits)
- BIOL 373 Biometry (3 credits)

3 credits selected from:
- CHEM 203 Survey of Physical Chemistry (3 credits)
- CHEM 204 Physical Chemistry/Biological Sciences 1 (3 credits)

### Honours in Physiology (75 credits)

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3 credits, one of:
- BIOL 309 Mathematical Models in Biology (3 credits)
- BIOL 373 Biometry (3 credits)
- COMP 202 Foundations of Programming (3 credits)
- COMP 250 Introduction to Computer Science (3 credits)
- PSYC 305 Stats for Experimental Design (3 credits)

3 credits selected from:
- CHEM 203 Survey of Physical Chemistry (3 credits)
- CHEM 204 Physical Chemistry/Biological Sciences 1 (3 credits)
- BIOC 312 Biochemistry of Macromolecules (3 credits)
### Upper-Level Physiology (ULP) Courses
6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

- All Physiology courses 400 level and above.
  - ANAT 541 Cell and Molecular Biology of Aging (3 credits)
  - BIOL 532 Developmental Neurobiology Seminar (3 credits)
  - BMDE 519 Biomedical Signals and Systems (3 credits)
  - EXMD 502 Advanced Endocrinology 01 (3 credits)
  - EXMD 503 Advanced Endocrinology 02 (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 413 Parasitology (3 credits)
  - MIMM 414 Advanced Immunology (3 credits)
  - MIMM 465 Bacterial Pathogenesis (3 credits)
  - MIMM 466 Viral Pathogenesis (3 credits)
  - PHGY 524 Chronobiology (3 credits)
  - PSYC 470 Memory and Brain (3 credits)
  - PSYT 500 Advances: Neuropsychology of Mental Disorders (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)

6 credits selected from the Upper-Level Physiology (ULP) courses:

- All Physiology courses 400 level and above.
  - PHGY 425 Analyzing Physiological Systems (3 credits)
  - PHGY 451 Advanced Neurophysiology (3 credits)
  - PHGY 488 Stem Cell Biology. (3 credits) *(New Course)*
  - 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 518 Artificial Cells (3 credits)
  - PHGY 520 Ion Channels (3 credits)
  - PHGY 524 Chronobiology (3 credits)
  - PHGY 531 Topics in Applied Immunology (3 credits)
  - PHGY 550 Physiology of Bone (3 credits)
  - PHGY 552 Cellular and Molecular Physiology (3 credits)
  - PHGY 556 Topics in Systems Neuroscience (3 Credits)
  - PHGY 560 Light Microscopy for the Life Sciences (3 credits)
  - ANAT 541 Cell and Molecular Biology of Aging (3 credits)
  - BIOL 532 Developmental Neurobiology Seminar (3 credits)
  - BMDE 519 Biomedical Signals and Systems (3 credits)
  - BMDE 505 Cell and Tissue Engineering (3 credits)
  - EXMD 502 Advanced Endocrinology 01 (3 credits)
  - EXMD 503 Advanced Endocrinology 02 (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)
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  - MIMM 465 Bacterial Pathogenesis (3 credits)
  - MIMM 466 Viral Pathogenesis (3 credits)
  - MIMM 509 Inflammatory Process (3 credits)
  - PSYC 470 Memory and Brain (3 credits)
  - PSYT 500 Advances: Neuropsychology of Mental Disorders (3 credits)
9. Approvals

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<td>Department</td>
<td>Dr. John Orlowski</td>
<td>J. Orlowski</td>
<td>9/3/10/13</td>
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<tr>
<td>Curric/Acad Committee</td>
<td></td>
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<tr>
<td>Senate</td>
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Submitted by

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
<th>Submission Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sonia Viselli</td>
<td>514-398-3688</td>
<td><a href="mailto:sonia.viselli@mcoill.ca">sonia.viselli@mcoill.ca</a></td>
<td>October 03, 2013</td>
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To be completed by ARR:

<table>
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</table>
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: October 30, 2013

TO: Vittoria Catania
    Department of Anatomy and Cell Biology

FROM: Sonia Viselli
      Department of Physiology

The attached proposals have been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

Please note that your course(s) is/are in the category of complementary courses in our program therefore only a small number of students are likely to select your course(s).

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

X

NO OBJECTIONS       SOME OBJECTIONS

COMMENTS: More flexibility ? Great idea!

Signature: [Signature]

Date: Nov 14 13
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: October 30, 2013

TO: Christine Laberge
    Department of Biochemistry

FROM: Sonia Viselli
      Department of Physiology

The attached proposals have been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

Please note that your course(s) is/are in the category of complementary courses in our program therefore only a small number of students are likely to select your course(s).

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

X  NO OBJECTIONS  _______  SOME OBJECTIONS

COMMENTS:

Signature: [Signature]
Date: Oct. 31, 2013
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: February 4, 2014

TO: Pina Sorrini
Department of Biomedical Engineering

FROM: Sonia Viselli
Department of Physiology

The attached proposal has been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

The Department has added the following BMDE course to our Upper Level Physiology list which PHGY Liberal, Major and Honours students are required to complete 6-9 credits from our approved list.

BMDE 505 Cell and Tissue Engineering (3 credits)

Would you be kind enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

✓ NO OBJECTIONS    SOME OBJECTIONS

COMMENTS:

Signature: [Signature]

Date: Feb 5, 2014
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: October 30, 2013

TO: Bettina Kemme
Department of Computer Science

FROM: Sonia Viselli
Department of Physiology

The attached proposals have been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

Please note that your course(s) is/are in the category of complementary courses in our program therefore only a small number of students are likely to select your course(s).

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

[Signature]

NO OBJECTIONS

SOME OBJECTIONS

COMMENTS:
As already mentioned at the Academic Committee of the Faculty of Science, I suggest the following modifications.

1) For all three programs, the list of complementary courses, you currently have 3 credits, one of
BIOL 309, BIOL 373,
COMP 202, COMP 250, COMP 251
PSYC 305, PSYC 315.

You should remove COMP 251 as it has COMP 250 as a pre-requisite. COMP 251 is really a course that is designed for students taking our programs.
You could add COMP 364 as this course is specifically designed for students in the life-sciences and thus, it could be very beneficial.

2) For the Upper-Level Physiology courses

I would suggest you to add (additionally to COMP 364) also COM 202, COMP 250 and COMP 206.
By offering this choice, students that decide to take BIOL 309, BIOL 373, PSYC 305, PSYC 315, could still take one of several interesting COMP courses.

Signature: [Signature]

Date: 31-10-2003
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: February 4, 2014

TO: André Yves Gagnon
Department of Epidemiology, Biostatistics and Occupational Health

FROM: Sonia Viselli
Department of Physiology

The attached proposal has been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

The Department has added the following EPIB course to our Upper Level Science list which PHGY Major students are required to complete 6 credits from our approved list.

EPIB 501 Population Health and Epidemiology (3 credits)

Would you be kind enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

X NO OBJECTIONS ________________ SOME OBJECTIONS

COMMENTS:

Signature: [Signature]

Date: 05 FEB 2014
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: February 4, 2014

TO: Jennifer DiMassimo
Department of Biomedical Engineering

FROM: Sonia Viselli
Department of Physiology

The attached proposal has been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

The Department has added the following MIMM course to our Upper Level Physiology list which PHGY Liberal, Major and Honours students are required to complete 6-9 credits from our approved list.

MIMM 509 Inflammatory Process (3 credits)

Would you be kind enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

X NO OBJECTIONS

COMMENTS:

Signature: see attached e-mail

Date: February 13, 2014
Hello Sonia,

Dr. Joyce Rauch has no objections.

Regards,

- Jennifer

Hi Jennifer:

I have no problems with this. Many IHI students take the course, and that programme is in Physiology. Also, we have a very small class this year so can probably use all the promotion that we can get. Do I need to do anything or do you sign the form?

Best wishes.

Joyce

Hi Joyce,

Do you have any objections with having M1MM 509 added to the complementary course list for Physiology?

Regards,

- Jennifer

From: Sonia Viselli
Sent: Tuesday, February 04, 2014 2:38 PM
To: Jennifer DiMassimo
Subject: PHGY Program Consultation Request from Microbiology and Immunology
Importance: High
Hi Jennifer,

Happy New year and hope you are doing well.

Attached are my Physiology program revisions which we have added your MIMM 509 course to our Upper Level Physiology listing. I would appreciate if you can review our programs and let me know using the consultation form should your department have any objections. Please note that only a small number of students would likely select your course.

Thank you.

Sonia

Sonia Viselli | Student Affairs Officer/Advisor | Department of Physiology | McGill University | McIntyre Medical Sciences Building | 3655 Promenade Sir-William-Osler | Room 1022 | Montreal | QC | H3G 1Y6 | Tel: 514.398.3689 | Fax: 514.398.7452 | sonia.viselli@mcgill.ca | www.mcgill.ca/physiology

McGill Students: Please use your official McGill email, and include your student ID number in all correspondence.
From: Sonia Viselli
Sent: Wednesday, February 19, 2014 7:52 AM
To: 'Gillian O Driscoll'
Subject: physiology program changes

Thank you.

Regards,
Sonia

Sonia Viselli | Student Affairs Officer/Advisor | Department of Physiology | McGill University |
McIntyre Medical Sciences Building | 3655 Promenade Sir-William-Osler | Room 1022 | Montreal |
QC | H3G 1Y6 | Tel: 514.398.3689 | Fax: 514.398.7452 | sonia.viselli@mcgill.ca |
|www.mcgill.ca/physiology

McGill Students: Please use your official McGill email, and include your student ID number in all correspondence.

-----Original Message-----
From: Gillian O Driscoll [mailto:gillian@psych.mcgill.ca]
Sent: Tuesday, February 18, 2014 4:47 PM
To: Sonia Viselli; Josie D'Amico
Subject: physiology program changes

Dear Sonia and Josie,

I looked over the proposed changes to the Physiology Major. It is fine with us to add Psych 305 and 317 to the major. Psyc 472 is no longer offered and I believe is no longer on the books. Otherwise the proposal looks fine with us.

The Physiology Honours program changes and Liberal Program changes both look fine with us as written.

Thank you for checking with us.

Sincerely,
Gillian O'Driscoll
UG Program Director
Dept. Of Psychology
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: February 4, 2014

TO: Angela Fotopoulos
    Department of Philosophy

FROM: Sonia Viselli
      Department of Physiology

The attached proposal has been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

The Department has added the following PHIL courses to our Upper Level Sciences list which PHGY Major students are required to complete 6 credits from our approved list.

PHIL 341 Philosophy of Science 1 (3 credits)
PHIL 343 Biomedical Ethics (3 credits)

Would you be kind enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

✓ NO OBJECTIONS

SOME OBJECTIONS

COMMENTS:

Signature: [Signature]

Date: 19th February 2014
CONSULTATION REPORT FORM
RE COURSE/PROGRAM PROPOSALS

DATE: October 30, 2013

TO: Dr. David Green, Director
Redpath Museum

FROM: Sonia Viselli
Department of Physiology

The attached proposals have been submitted to the Curriculum/Academic Committee in Faculty of Science, and it has been decided that your department should be consulted.

Please note that your course(s) is/are in the category of complementary courses in our program therefore only a small number of students are likely to select your course(s).

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

____x____ NO OBJECTIONS _______ SOME OBJECTIONS

COMMENTS:

__________________________
Signature:

__________________________
Date: 6 Nov. 2013