

399<sup>th</sup> REPORT OF THE ACADEMIC POLICY COMMITTEE TO SENATE28<sup>th</sup> February and 13<sup>th</sup> March 2008I. TO BE APPROVED BY SENATE

## (A) NEW TEACHING PROGRAMS

Faculty of Medicine and Faculty of Science

**B.Sc.; Major in Pharmacology** (Appendix A)

At a meeting on 28<sup>th</sup> February 2008 APC reviewed a proposal for a 65-credit *B.Sc.; Major in Pharmacology* program. This program will provide a solid background in the area of pharmacology and allied disciplines and will serve as excellent preparation for postgraduate studies in biomedical or environmental sciences or professional programs including medicine, dentistry, nursing, and veterinary sciences. The proposed program will require evaluation by CREPUQ's *Commission d'évaluation des projets de programmes (CEP)* and approval by the Ministry of Education, Leisure and Sport (MELS).

APC therefore recommends that Senate approve the following resolution:

*be it resolved that Senate approve the proposed B.Sc.; Major in Pharmacology.*

**B.Sc.; Honours in Pharmacology** (Appendix B)

At a meeting on 28<sup>th</sup> February 2008 APC reviewed a new 74-credit program. This program is designed for students who are interested in pursuing a research career and are considering subsequent graduate studies in Pharmacology. It provides hands-on research experience. The proposed program will require evaluation by CREPUQ's *Commission d'évaluation des projets de programmes (CEP)* and approval by the Ministry of Education, Leisure and Sport (MELS).

APC therefore recommends that Senate approve the following resolution:

*be it resolved that Senate approve the proposed B.Sc.; Honours in Pharmacology.*

## (B) CHANGE IN DEGREE DESIGNATION

None.

## (C) ACADEMIC PERFORMANCE ISSUES / POLICIES / GOVERNANCE

None.

## (D) CREATION OF NEW UNITS / NAME CHANGES / REPORTING CHANGES

None.

## (E) INTER-UNIVERSITY PARTNERSHIPS

None.

II. PRESENTED TO SENATE FOR DISCUSSION

None.

III. APPROVED IN THE NAME OF SENATE

## (A) DEFINITIONS

None.

## (B) Student Exchange Agreements (approved by APC)

None.

**(C) Other issues**

None

**IV. FOR THE INFORMATION OF SENATE****(A) Minor Program Revisions** (approved by the APC Subcommittee on Courses and Teaching Programs on 7<sup>th</sup> February 2008 unless otherwise indicated). **Revisions were made to the following programs:**

- 1) Faculty of Agricultural and Environmental Sciences  
**Graduate Certificate in Biotechnology** (16 cr.)  
**M.Sc. in Bioresource Engineering; Non-Thesis – IWRM** (47 cr.)
- 2) Faculty of Arts  
**M.A. in Jewish Studies** (45 cr.)
- 3) Desautels Faculty of Management  
**Graduate Diploma in Public Accountancy** (30 cr.)
- 4) Faculty of Law  
**LL.M. in Air and Space Law** (45 cr.)
- 5) Schulich School of Music  
**M.A. in Music; Music Technology** (48 cr.)
- 6) Faculty of Religious Studies  
**B.Th.** (90 cr.)
- 7) Faculty of Science  
**B.Sc.; Major in Earth and Planetary Sciences** (66 cr.) [SCTP November 15, 2007]  
**B.Sc.; Honours in Earth Sciences** (75 cr.) [SCTP November 15, 2007]  
**B.Sc.; Honours in Planetary Sciences** (81 cr.) [SCTP November 15, 2007]  
**B.Sc.; Core Science Component in Earth and Planetary Sciences [Liberal Program]** (45 cr.) [SCTP November 15, 2007]

**(B) NEW COURSES** : 28 were approved

- 1) Faculty of Arts : 10
- 2) Faculty of Education: 1
- 3) Faculty of Law: 3
- 4) Desautels Faculty of Management: 1
- 5) Faculty of Medicine: 2
- 6) Schulich School of Music: 8
- 7) Faculty of Science: 3

**(C) COURSE REVISIONS** : 21 were approved

- 1) Faculty of Agricultural and Environmental Sciences: 2
- 2) Faculty of Arts: 4
- 3) Faculty of Law: 2
- 4) Desautels Faculty of Management: 7
- 5) Schulich School of Music: 6

**(D) Program retirements** : 2 were approved

Faculty of Law  
**B.C.L./LL.B.; Major Concentration in Dispute Resolution** (36 cr.) [SCTP December 10, 2007]  
**B.C.L./LL.B.; Major Concentration in Trial and Appellate Practice** (36 cr.) [SCTP December 10, 2007]

**(E) Course retirements** : 11 were approved

- a) Faculty of Arts: 1
- b) Centre for Continuing Education: 6
- c) Faculty of Law: 4

*Compiled by Helen M.C. Richard, 2008-03-13*



(07/2004)

|  |   |
|--|---|
| <p><b>1.0 Degree Title</b><br/>Please specify the two degrees for concurrent degree programs</p> <p>B. Sc.</p>   | <p><b>2.0 Administering Faculty/Unit</b></p> <p>Science</p>   |
| <p><b>1.1 Major (Legacy= Subject)(30-char. max.)</b></p> <p>Major in Pharmacology</p>                            | <p><b>Offering Faculty/Department</b></p> <p>Medicine/Pharmacology &amp; Therapeutics</p>               |
| <p><b>1.2 Concentration (Legacy = Concentration/Option)</b><br/>If applicable to Majors only (30 char. max.)</p> | <p><b>3.0 Effective Term of Implementation</b><br/>(Ex. Sept. 2004 = 200409)<br/>Term</p> <p>200809</p> |
| <p><b>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</b></p>                                      |   |

**4.0 Rationale for new proposal**

This Majors Program in Pharmacology will provide a solid background in pharmacology and allied disciplines, serving as an excellent preparation for entering postgraduate studies in biomedical or environmental sciences or professional programs including medicine, dentistry, and veterinary sciences.

**5.0 Program Information**  
Please check appropriate box(es)

|  |  |  |
|--|--|--|
| <p><b>5.1 Program Type</b></p> <p><input checked="" type="checkbox"/> Bachelor's Program</p> <p><input type="checkbox"/> Master's</p> <p><input type="checkbox"/> M.Sc. (Applied) Program</p> <p><input type="checkbox"/> Dual Degree/Concurrent Program</p> <p><input type="checkbox"/> Certificate</p> <p><input type="checkbox"/> Diploma</p> <p><input type="checkbox"/> Graduate Certificate</p> <p><input type="checkbox"/> Graduate Diploma</p> <p><input type="checkbox"/> Ph.D. Program</p> <p><input type="checkbox"/> Doctorate Program (Other than Ph.D.)</p> <p><input type="checkbox"/> Private Program</p> <p><input type="checkbox"/> Off-Campus Program</p> <p><input type="checkbox"/> Distance Education Program (By Correspondence)</p> <p><input type="checkbox"/> Other (Please specify)</p> | <p><b>5.2 Category</b></p> <p><input type="checkbox"/> Faculty Program (FP)</p> <p><input checked="" type="checkbox"/> Major</p> <p><input type="checkbox"/> Joint Major</p> <p><input type="checkbox"/> Major Concentration (CON)</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Minor Concentration (CON)</p> <p><input type="checkbox"/> Honours (HON)</p> <p><input type="checkbox"/> Joint Honours Component (HC)</p> <p><input type="checkbox"/> Internship/Co-op</p> <p><input type="checkbox"/> Thesis (T)</p> <p><input type="checkbox"/> Non-Thesis (N)</p> <p><input type="checkbox"/> Other</p> <p>Please specify</p> | <p><b>5.3 Level</b></p> <p><input checked="" type="checkbox"/> Undergraduate</p> <p><input type="checkbox"/> Dentistry/Law/Medicine</p> <p><input type="checkbox"/> Continuing Ed (Non-Credit)</p> <p><input type="checkbox"/> Collegial</p> <p><input type="checkbox"/> Masters &amp; Grad Dips &amp; Certs</p> <p><input type="checkbox"/> Doctorate</p> <p><input type="checkbox"/> Post-Graduate Medicine/Dentistry</p> <p><input type="checkbox"/> Graduate Qualifying</p> <p><input type="checkbox"/> Postdoctoral Fellows</p> |
|--|--|--|

**6.0 Total Credits**

65

**7.0 Consultation with Related Units**

Yes  No

Financial Consult Yes  No

Attach list of consultations.

8.0 Program Description (Maximum 150 words)

The Major Program incorporates extensive studies in Pharmacology together with a strong component of related biomedical sciences, providing a solid preparation for employment opportunities or for entry into graduate or professional training programs. Students must consult an advisor upon entering the program and at the beginning of U2, to verify course selection and progress. Additional consultation at regular intervals is encouraged.

9.0 List of proposed program for the New Program/Major or Minor/Concentration.

If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of all courses) of existing Major/Minor.

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 (19 credits):

BIOL 200 (3) Molecular Biology  
CHEM 212 (4) Introductory Organic Chemistry 1  
CHEM 222 (4) Introductory Organic Chemistry 2  
PHGY 209 (3) Mammalian Physiology 1  
PHGY 210 (3) Mammalian Physiology 2  
PHGY 212 (1) Introductory Physiology Laboratory 1  
PHGY 213 (1) Introductory Physiology Laboratory 2

U2 Required Courses (19 credits):

BIOC 311 (3) Metabolic Biochemistry  
BIOL 202 (3) Basic Genetics  
BIOL 301 (4) Cell and Molecular Laboratory  
PHAR 300 (3) Drug Action  
PHAR 301 (3) Drugs and Disease  
PHAR 303 (3) Principles of Toxicology

U3 Required Courses (12 credits):

PHAR 503 (3) Drug Design and Development 1  
PHAR 562 (3) Advanced Pharmacology 1  
PHAR 563 (3) Advanced Pharmacology 2  
PHAR 558 (3) Pharmacology Research Topics

See next page for Complementary courses

---

### Complementary Courses

(15 credits)

3 credits selected from:

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

3 credits selected from:

CHEM 204 (3) Physical Chemistry/Biological Sciences 1  
CHEM 203 (3) Survey of Physical Chemistry

3 credits selected from:

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

6 credits selected from the following upper level science courses:

ANAT 321 (3) Circuitry of the Human Brain  
ANAT 365 (3) Cell Biology: Secretory Processes  
ANAT 458 (3) Membranes and Cellular Signaling  
/ BIOC 458  
BIOC 450 (3) Protein Structure and Function  
BIOC 454 (3) Nucleic Acids  
BIOC 455 (3) Neurochemistry  
BIOL 300 (3) Molecular Biology of the Gene  
BIOL 303 (3) Developmental Biology  
BIOL 306 (3) Neurobiology and Behaviour  
BIOL 314 (3) Molecular Biology of Oncogenes  
BIOT 505 (3) Selected Topics in Biotechnology  
CHEM 302 (3) Introductory Organic Chemistry 3  
CHEM 502 (3) Advanced Bio-Organic Chemistry  
~~CHEM 504\* (3) Drug Design and Development 2~~  
EXMD 504 (3) Biology of Cancer  
EXMD 511 (3) Joint Venturing With Industry  
MIMM 314 (3) Immunology  
MIMM 387 (3) Applied Microbiology and Immunology  
MIMM 414 (3) Advanced Immunology  
NEUR 310 (3) Cellular Neurobiology  
PATH 300 (3) Human Disease  
PHAR 504 (3) Drug Design and Development 2  
PHAR 599D1/D2 (6) Research Projects in Pharmacology  
PHGY 311 (3) Intermediate Physiology 1  
PHGY 312 (3) Intermediate Physiology 2  
PHGY 313 (3) Intermediate Physiology 3  
PHGY 314 (3) Integrative Neuroscience  
PHGY 520 (3) Ion Channels  
PSYC 311 (3) Human Cognition and the Brain  
Committee approval is required to substitute an upper level science course not in the above list.

\* Students may take either CHEM 504 or PHAR 504

Ac-06-(REV2)

| 10.0 Approvals           |                     |                           |                  |
|--------------------------|---------------------|---------------------------|------------------|
| Routing Sequence         | Name                | Signature                 | Date             |
| Department               | Dr. Hans Zinda      | <i>H. Zinda</i>           | November 6, 2006 |
| Curric/Acad Committee    |                     |                           | Jan 20/07        |
| Faculty 1 <i>Science</i> | <i>Jose D. Amos</i> | <i>Jose D. Amos</i>       | Feb 13/07        |
| Faculty 2                |                     |                           |                  |
| Faculty 3                |                     |                           |                  |
| SCTP                     | <b>SCTP</b>         |                           | Feb. 7/08        |
| GS                       | <b>APPROVED</b>     |                           |                  |
| APPC                     | Helen M.C. RICHARD  | <i>Helen M.C. Richard</i> | 28th Feb 2008    |
| Senate                   |                     |                           |                  |

  

|                 |                              |                         |  |
|-----------------|------------------------------|-------------------------|--|
| Submitted by    |                              | To be completed by ARR: |  |
| Name            | Tina Tremblav                |                         |  |
| Phone           | 398-3623                     | CIP Code                |  |
| Email           | Christina.tremblav@mcaill.ca |                         |  |
| Submission Date | November 6, 2006             |                         |  |

10.0 Approvals

| Routing Sequence      | Name                | Signature                  | Date             |
|-----------------------|---------------------|----------------------------|------------------|
| Department            | Dr. Hana Zilca      | <i>[Signature]</i>         | November 8, 2006 |
| Curric/Acad Committee | DR. PAUL HOLLIND    | <i>[Signature]</i>         | 01 FEB. 2007     |
| Faculty 1             | DR. RICHARD LIEVIN  | <i>[Signature]</i>         | 4/26/02          |
| Faculty 2             |                     |                            |                  |
| Faculty 3             |                     |                            |                  |
| SCTP                  |                     |                            |                  |
| GS                    |                     |                            |                  |
| APPC                  | Helen m. c. RICHARD | <i>Helen m. c. Richard</i> | 28th Feb 2008    |
| Senate                |                     |                            |                  |

Submitted by

Name: Tina Tremblay  
 Phone: 388-3623  
 Email: Christina.tremblay@mcgill.ca  
 Submission Date: November 8, 2006

To be completed by ARR:

CIP Code

Ac-06-6/7 (REV 2)  
Cours. 1

New B. Sc. programs:      Major in Pharmacology  
   Honours in Pharmacology

The Department of Pharmacology and Therapeutics is pleased to propose two new undergraduate degree programs in Pharmacology to add to and complement the current Minor in Pharmacology. These new Programs have been developed over the last year in consultation with the other basic biomedical science departments.

The new Honours Program will provide an opportunity for hands-on research experience – students will be affiliated with one of our pharmacology research laboratories and will carry out and interpret experiments on a designated project, thus developing an understanding of the challenges and rewards of experimental research. The new Majors Program (65 credits) will provide a solid background in pharmacology and allied disciplines in preparation for entering postgraduate studies in biomedical or environmental sciences or professional programs including medicine, dentistry, and veterinary sciences.

We are confident that the new Major in Pharmacology and Honours in Pharmacology programs will make an important contribution to the biomedical sciences curriculum at McGill and to the discipline of Pharmacology in Quebec and Canada. There are remarkably few (less than 10) such programs in North America. With this initiative, McGill will be taking a leading role in preparing the highly qualified young minds that our biotechnology / knowledge driven Society demands.

These new programs have entailed the creation of one new course in Pharmacology, PHAR558, Selected Research Topics in Pharmacology; this course was approved in 2006 and will be taught for the first time in Winter 2008.

**Honours (74 credits total)**

Required Credits per discipline:

Pharmacology – 27  
Biology – 13  
Chemistry – 11  
Physiology – 8

**Major (65 credits total)**

Required Credits per discipline:

Pharmacology – 21  
Biology – 13  
Chemistry - 11  
Physiology - 8





(07/2004)

|  |   |
|--|---|
| <p><b>1.0 Degree Title</b><br/>Please specify the two degrees for concurrent degree programs</p> <p>B. Sc.</p>   | <p><b>2.0 Administering Faculty/Unit</b></p> <p>Science</p>   |
| <p><b>1.1 Major (Legacy= Subject)(30-char. max.)</b></p> <p>Honours in Pharmacology</p>                          | <p><b>Offering Faculty/Department</b></p> <p>Medicine/Pharmacology &amp; Therapeutics</p>               |
| <p><b>1.2 Concentration (Legacy = Concentration/Option)</b><br/>If applicable to Majors only (30 char. max.)</p> | <p><b>3.0 Effective Term of Implementation</b><br/>(Ex. Sept. 2004 = 200409)<br/>Term</p> <p>200809</p> |
| <p><b>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</b></p>                                      |   |

**4.0 Rationale for new proposal**

The Honours Program is designed for students who are mainly interested in a research career, and are considering subsequent graduate studies in pharmacology. It provides an opportunity for hands-on research experience - the student becomes affiliated with one of our pharmacology research laboratories and will carry out and interpret experiments on a designated project, to develop a deeper understanding of the challenges and rewards of experimental research.

**5.0 Program Information**  
Please check appropriate box(es)

|  |  |  |
|--|--|--|
| <p><b>5.1 Program Type</b></p> <p><input checked="" type="checkbox"/> Bachelor's Program</p> <p><input type="checkbox"/> Master's</p> <p><input type="checkbox"/> M.Sc. (Applied) Program</p> <p><input type="checkbox"/> Dual Degree/Concurrent Program</p> <p><input type="checkbox"/> Certificate</p> <p><input type="checkbox"/> Diploma</p> <p><input type="checkbox"/> Graduate Certificate</p> <p><input type="checkbox"/> Graduate Diploma</p> <p><input type="checkbox"/> Ph.D. Program</p> <p><input type="checkbox"/> Doctorate Program (Other than Ph.D.)</p> <p><input type="checkbox"/> Private Program</p> <p><input type="checkbox"/> Off-Campus Program</p> <p><input type="checkbox"/> Distance Education Program (By Correspondence)</p> <p><input type="checkbox"/> Other (Please specify)</p> | <p><b>5.2 Category</b></p> <p><input type="checkbox"/> Faculty Program (FP)</p> <p><input type="checkbox"/> Major</p> <p><input type="checkbox"/> Joint Major</p> <p><input type="checkbox"/> Major Concentration (CON)</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Minor Concentration (CON)</p> <p><input checked="" type="checkbox"/> Honours (HON)</p> <p><input type="checkbox"/> Joint Honours Component (HC)</p> <p><input type="checkbox"/> Internship/Co-op</p> <p><input type="checkbox"/> Thesis (T)</p> <p><input type="checkbox"/> Non-Thesis (N)</p> <p><input type="checkbox"/> Other</p> <p>Please specify</p> | <p><b>5.3 Level</b></p> <p><input checked="" type="checkbox"/> Undergraduate</p> <p><input type="checkbox"/> Dentistry/Law/Medicine</p> <p><input type="checkbox"/> Continuing Ed (Non-Credit)</p> <p><input type="checkbox"/> Collegial</p> <p><input type="checkbox"/> Masters &amp; Grad Dips &amp; Certs</p> <p><input type="checkbox"/> Doctorate</p> <p><input type="checkbox"/> Post-Graduate Medicine/Dentistry</p> <p><input type="checkbox"/> Graduate Qualifying</p> <p><input type="checkbox"/> Postdoctoral Fellows</p> |
|--|--|--|

|   |  |
|---|--|
| <p><b>6.0 Total Credits</b></p> <p>74</p> | <p><b>7.0 Consultation with Related Units</b>      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p><b>Financial Consult</b>      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Attach list of consultations.</p> |
|---|--|

## 8.0 Program Description (Maximum 150 words)

The Honours Program in Pharmacology is designed as a preparation for graduate studies and research; in addition to the strong training provided by the Major Program, it provides students with direct research experience in a chosen area during their final year of study. Acceptance into the Honours Program takes place in the winter term of U2 and requires a CGPA of 3.30. Students who wish to enter the Honours program should follow the Major program; those who satisfactorily complete the first three terms with a CGPA of at least 3.30 and a mark of B or higher in core Pharmacology courses are eligible for admission. Applications can be obtained from the Office of the Department of Pharmacology in the McIntyre Medical Building or on the departmental website. For graduation in the Honours program, students must complete a minimum of 90 credits, pass all required Pharmacology courses with no grade less than B, and achieve a CGPA of at least 3.30. Students who do not maintain Honours standing may transfer their registration to the Major Program.

## 9.0 List of proposed program for the New Program/Major or Minor/Concentration.

If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of all courses) of existing Major/Minor.

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 (19 credits):

BIOL 200 (3) Molecular Biology  
CHEM 212\* (4) Introductory Organic Chemistry 1  
CHEM 222 (4) Introductory Organic Chemistry 2  
PHGY 209 (3) Mammalian Physiology 1  
PHGY 210 (3) Mammalian Physiology 2  
PHGY 212 (1) Introductory Physiology Laboratory 1  
PHGY 213 (1) Introductory Physiology Laboratory 2

### U2 Required Courses (19 credits):

BIOC 311 (3) Metabolic Biochemistry  
BIOL 202 (3) Basic Genetics  
BIOL 301 (4) Cell and Molecular Laboratory  
PHAR 300 (3) Drug Action  
PHAR 301 (3) Drugs and Disease  
PHAR 303 (3) Principles of Toxicology

### U3 Required Courses (18 credits):

PHAR 503 (3) Drug Design and Development 1  
PHAR 562 (3) Advanced Pharmacology 1  
PHAR 563 (3) Advanced Pharmacology 2  
PHAR 558 (3) Pharmacology Research Topics  
PHAR 599 D1/D2 (6) Research Projects in Pharmacology

\*Students with prior credit for CHEM 212 may take an elective in place of this course.

See next page for Complementary courses

**Complementary Courses**

(18 credits)

3 credits selected from:

BIOL 201 (3) Cell Biology and Metabolism

BIOC 212 (3) Molecular Mechanisms of Cell Function

3 credits selected from:

CHEM 204 (3) Physical Chemistry/Biological Sciences 1

CHEM 203 (3) Survey of Physical Chemistry

3 credits selected from:

BIOL 373 (3) Biometry

MATH 203 (3) Principles of Statistics 1

PSYC 204 (3) Introduction to Psychological Statistics

9 credits selected from the following upper level science courses:

ANAT 321 (3) Circuitry of the Human Brain

ANAT 365 (3) Cell Biology: Secretory Processes

ANAT 458 (3) Membranes and Cellular Signaling

/ BIOC 458

BIOC 450 (3) Protein Structure and Function

BIOC 454 (3) Nucleic Acids

BIOC 455 (3) Neurochemistry

BIOL 300 (3) Molecular Biology of the Gene

BIOL 303 (3) Developmental Biology

BIOL 306 (3) Neurobiology and Behaviour

BIOL 314 (3) Molecular Biology of Oncogenes

BIOT 505 (3) Selected Topics in Biotechnology

CHEM 302 (3) Introductory Organic Chemistry 3

CHEM 502 (3) Advanced Bio-Organic Chemistry

~~CHEM 504 (3) Drug Design and Development 2~~

EXMD 504 (3) Biology of Cancer

EXMD 511 (3) Joint Venturing With Industry

MIMM 314 (3) Immunology

MIMM 387 (3) Applied Microbiology and Immunology

MIMM 414 (3) Advanced Immunology

NEUR 310 (3) Cellular Neurobiology

PATH 300 (3) Human Disease

PHAR 504 (3) Drug Design and Development 2\*

PHGY 311 (3) Intermediate Physiology 1

PHGY 312 (3) Intermediate Physiology 2

PHGY 313 (3) Intermediate Physiology 3

PHGY 314 (3) Integrative Neuroscience

PHGY 520 (3) Ion Channels

PSYC 311 (3) Human Cognition and the Brain

Committee approval is required to substitute an upper level science course not in the above list.

\* Students may take either CHEM 504 or PHAR 504

10.0 Approvals

Routing Sequence

|                       | Name               | Signature          | Date             |
|-----------------------|--------------------|--------------------|------------------|
| Department            | Dr. Hans Zinco     | <i>[Signature]</i> | November 6, 2006 |
| Curric/Acad Committee | <i>[Signature]</i> | <i>[Signature]</i> | Jan 30/07        |
| Faculty 1             | <i>[Signature]</i> | <i>[Signature]</i> | Feb 13/07        |
| Faculty 2             | <b>SCTP</b>        |                    |                  |
| Faculty 3             |                    |                    |                  |
| SCTP                  | <b>APPROVED</b>    |                    | Feb. 7/08        |
| GS                    |                    |                    |                  |
| APPC                  | Helen M.C. RICHARD | <i>[Signature]</i> | 28th Feb 2008    |
| Senate                |                    |                    |                  |

Submitted by

Name: Tina Tremblav

Phone: 398-3623

Email: Christina.tremblav@mcaill.ca

Submission Date: November 6, 2006

To be completed by ARR:

CIP Code:

10.0 Approvals

| Routing Sequence      | Name                | Signature                  | Date             |
|-----------------------|---------------------|----------------------------|------------------|
| Department            | Dr. Hans Zinos      | <i>[Signature]</i>         | November 6, 2008 |
| Curric/Acad Committee | DR. PAUL HOLLIND    | <i>[Signature]</i>         | 01 FEB. 2007     |
| Faculty 1             | DR. RICHARD LIEVIN  | <i>[Signature]</i>         | 4/26/02          |
| Faculty 2             |                     |                            |                  |
| Faculty 3             |                     |                            |                  |
| SCTP                  |                     |                            |                  |
| GS                    |                     |                            |                  |
| APPC                  | Helen M. C. RICHARD | <i>Helen M. C. Richard</i> | 28th Feb 2008    |
| Senate                |                     |                            |                  |

Submitted by

Name:

Phone:

Email:

Submission Date:

To be completed by ARR:

CIP Code:

