



McGill

New Program/Major or Minor/Concentration Proposal Form

(2013)

<p>1.0 Degree Title Please specify the two degrees for concurrent degree programs</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Master of Science</div>	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Graduate and Postdoctoral Studies</div>
<p>1.1 Major (Legacy= Subject)(30-char. max.)</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Pharmacology</div>	<p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Medicine / Pharmacology and Therapeutics</div>
<p>1.2 Concentration (Legacy = Concentration/Option) If applicable to Majors only (30 char. max.)</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Environmental Health Sciences</div>	<p>3.0 Effective Term of Implementation (Ex. Sept. 2004 = 200409) Term</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">201809</div>
<p>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; width: 90%;"></div>	

4.0 Rationale and Admission Requirements for New Proposal

The investigation of key questions in Environmental Health Sciences requires an interdisciplinary, collaborative approach. This new graduate option will use core courses to bring together graduate students from participating units (i.e., Epidemiology, Biostatistics and Occupational Health; Pharmacology and Therapeutics; Natural Resource Sciences; Experimental Medicine), exposing them to diverse approaches and research issues. Please see Admission Requirements on page 3.

5.0 Program Information
Please check appropriate box(es)

<p>5.1 Program Type</p> <p>Bachelor's Program</p> <p><input checked="" type="checkbox"/> Master's</p> <p>M.Sc. (Applied) Program</p> <p>Dual Degree/Concurrent Program</p> <p>Certificate</p> <p>Diploma</p> <p>Graduate Certificate</p> <p>Graduate Diploma</p> <p>Ph.D. Program</p> <p>Doctorate Program (Other than Ph.D.)</p> <p>Private Program</p> <p>Off-Campus Program</p> <p>Distance Education Program (By Correspondence)</p> <p>Other (Please specify)</p>	<p>5.2 Category</p> <p>Faculty Program (FP)</p> <p>Major</p> <p>Joint Major</p> <p>Major Concentration (CON)</p> <p>Minor</p> <p>Minor Concentration (CON)</p> <p>Honours (HON)</p> <p>Joint Honours Component (HC)</p> <p>Internship/Co-op</p> <p>xThesis (T)</p> <p>Non-Thesis (N)</p> <p>Other</p> <p>Please specify</p>	<p>5.3 Level</p> <p>Undergraduate</p> <p>Dentistry/Law/Medicine</p> <p>Continuing Studies (Non-Credit)</p> <p>Collegial</p> <p>xMasters & Grad Dips & Certs</p> <p>Doctorate</p> <p>Post-Graduate Medicine/Dentistry</p> <p>Graduate Qualifying</p> <p>Postdoctoral Fellows</p> <p>5.4 FQRSC (Research) Indicator (for GPS) Yes No</p> <p>Yes ___ No <u>x</u></p> <p>5.5 Requires Resources</p> <p>Yes ___ No <u>x</u></p>
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<p>6.0 Total Credits</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">45 credits</div>	<p>7.0 Consultation with Related Units Yes <input checked="" type="checkbox"/> No</p> <p>Financial Consult Yes No <u>X</u></p> <p>Attach list of consultations.</p>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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8.0 Program Description (Maximum 150 words)

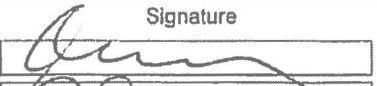

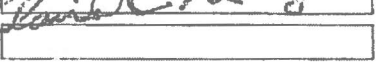
The MSc program in Pharmacology Environmental Health Sciences Option will focus on the interplay between the environment and health. Environmental health research is highly interdisciplinary today. Students will be given the opportunity to acquire a broad environmental perspective, to exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches. Students will complete the specified course requirements and an MSc thesis.

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)

Existing Program:	Proposed New Option:
<p>MSc Pharmacology - Thesis (45 credits)</p> <p>Thesis Courses (24 credits)</p> <ul style="list-style-type: none"> • PHAR 696 Thesis Preparation (3 credits) • PHAR 698 Thesis Preparation 2 (9 credits) • PHAR 699 Thesis Preparation 3 (12 credits) <p>Required Courses (12 credits)</p> <ul style="list-style-type: none"> • PHAR 601 D1/D2 Comprehensive Exam (6 credits) • PHAR 609 Research Professionalism for Pharmacologists (1 credit) • PHAR 610 Scientific Communication for Pharmacologists (2 credits) • PHAR 712 Statistics for Pharmacologists (3 credits) <p>Complementary Courses (9 credits) 6 credits, from the following courses:</p> <ul style="list-style-type: none"> • PHAR 503 Drug Discovery & Development 1 (3 credits) OR • PHAR 505 Structural Pharmacology (3 credits) • PHAR 562 Neuropharmacology (3 credits) • OR • PHAR 563 Endocrine Pharmacology (3 credits) <p>OR completion of an equivalency exam OR an exemption granted by the Graduate Training Committee (GTC) on the basis of previous courses. Students may take PHAR 503 or PHAR 505 but not both.</p> <p>Students who have taken these courses as part of their undergraduate degree, passed the equivalency exam, or been exempted, will register for the following courses:</p> <ul style="list-style-type: none"> • PHAR 697 Thesis Preparation 1 (6 credits) <p>3 credits, at the 700-level PHAR course(s), or the equivalent, upon approval by the (GTC))</p>	<p>MSc Pharmacology Thesis (Environmental Health Science Option) (45 credits)</p> <p>Thesis Courses (24 credits)</p> <ul style="list-style-type: none"> • PHAR 696 Thesis Preparation (3 credits) • PHAR 698 Thesis Preparation 2 (9 credits) • PHAR 699 Thesis Preparation 3 (12 credits) <p>Required Courses (18 credits)</p> <ul style="list-style-type: none"> • <u>PHAR 601 D1/D2 Research Seminar (6 credits)</u> • PHAR 609 Research Professionalism for Pharmacologists (1 credit) • PHAR 610 Scientific Communication for Pharmacologists (2 credits) • <u>PHAR 670 Principles of Environmental Health Sciences 1 (3 credits)</u> • <u>PHAR 671 Principles of Environmental Health Sciences 2 (3 credits)</u> • PHAR 712 Statistics for Pharmacologists (3 credits) <p>Complementary Courses (3 credits) 3 credits, from the following courses:</p> <ul style="list-style-type: none"> • PHAR 503 Drug Discovery & Development 1 (3 credits) • PHAR 505 Structural Pharmacology (3 credits) • PHAR 562 Neuropharmacology (3 credits) • PHAR 563 Endocrine Pharmacology (3 credits) <p>OR completion of an equivalency exam OR an exemption granted by the Graduate Training Committee (GTC) on the basis of previous courses.</p> <p>Students who have taken these courses as part of their undergraduate degree, passed the equivalency exam, or been exempted, will register for: A 3 credit 700-level PHAR course, or the equivalent, upon approval by the GTC</p>

10.0 Approvals			
Routing Sequence	Name	Signature	Date
Department	Gerhard Muthaupt, Dr. rer. nat. Professor and Chair		MAR 27 2017
Curric/Acad Committee	DAVID RAGSDALE		April 12/17
Faculty 1	ELAINE DAVIS		April 13, 2017
Faculty 2			
Faculty 3			
CGPS			
SCTP			
APC			
Senate			

Submitted by		To be completed by ARR:	
Name	<input type="text"/>		
Phone	<input type="text"/>	CIP Code	
Email	<input type="text"/>		
Submission Date	<input type="text"/>		

Admission Requirements:

Candidates are required to hold a B.Sc. degree in a discipline relevant to the proposed field of study; those with the M.D., D.D.S., or D.V.M. degrees are also eligible to apply. A background in the health sciences is recommended, but programs in biology, chemistry, mathematics, and physical sciences may be acceptable. Admission is based on a student's academic record, letters of assessment, and, whenever possible, interviews with staff members. Students are required to take the Graduate Record Examination Aptitude Test (xref: GRE) and the Test of English as a Foreign Language (xref: TOEFL) or the equivalent, except as follows: in accordance with McGill policy, only those whose mother tongue is English, who graduated from a recognized Canadian institution (anglophone or francophone), or who completed an undergraduate or graduate degree at a recognized foreign institution where English is the language of instruction are exempt from providing proof of competency in English.

Guidelines for the New Program/Major or Minor/Concentration Proposal Form

APPENDIX 1

CONSULTATION REPORT FORM RE PROGRAM PROPOSALS

DATE: March 6, 2017

TO: Prof. Benoît Côté, Department of Natural Resource Sciences

FROM: Barbara Hales, Graduate Program Director, Department of Pharmacology & Therapeutics

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Program Title: New Pharmacology MSc and PhD program Options in Environmental Health Sciences

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. Specifically, a course [or courses] taught by your department that has [have] been included in the program's list of courses.

NO OBJECTIONS
 SOME OBJECTIONS

COMMENTS:

Signature:

Benoît Côté

Date:

March 7, 2017

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APPENDIX 1

CONSULTATION REPORT FORM
RE PROGRAM PROPOSALS

DATE: March 6, 2017

TO: Dr. Prof. Anne-Marie Lauzon, Director, Experimental Medicine

FROM: Barbara Hales, Graduate Program Director, Department of Pharmacology & Therapeutics

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Program Title: New Pharmacology MSc and PhD program Options in Environmental Health Sciences

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. Specifically, a course [or courses] taught by your department that has [have] been included in the program's list of courses.

X

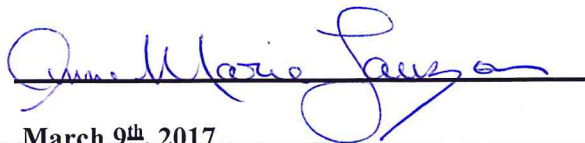
_____ NO OBJECTIONS

_____ SOME OBJECTIONS

COMMENTS:

These new options in the Department of Pharmacology will allow their students to get training in environmental health. The 2 courses that we are currently running jointly in 4 departments were developed for this purpose.

Signature:



Anne-Marie Lauzon

Date:

March 9th, 2017