CGPS. 12.44_revised

McGill

New Program/Major or Minor/Concentration Proposal Form

(07/2004)

1.0 Degree Title
Please specify the two degrees for concurrent degree programs

M.Sc.

2.0 Administering Faculty/Unit

GPS

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

Phsyiology

Offering Faculty/Department

Medicine/Physiology

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

Chemical Biology

3.0 Effective Term of Implementation
(Ex. Sept. 2004 = 200409)
Term

201309

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

4.0 Rationale for new proposal

The Graduate Option in Chemical Biology is designed to expose students to aspects of drug design and development and their applications to the study of physiological and pathophysiological processes. In addition to thesis work with appropriate mentors, students will participate in lecture and seminar courses and thematic workshops, all of which are designed to familiarize students with the current state of the field. This interdisciplinary approach will develop researchers interested in academic careers or in research in the pharmaceutical and biotechnology industries.

5.0 Program Information
Please check appropriate box(es)

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

6.0 Total Credits

45

7.0 Consultation with
Related Units Yes ☐ No
Financial Consult Yes No
Attach list of consultations.

8.0 Program Description (Maximum 150 words)

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program Mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

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)

Proposed M.Sc. in Physiology; Chemical Biology (45 credits)

Required Thesis Courses (27 credits)
PHGY 621 Thesis 1 (12)
PHGY 622 Thesis 2 (12)
PHGY 623 M.Sc. Final Seminar (3)
Required Courses (12 credits)
PHGY 601 M.Sc. Proposal Seminar (1)
PHGY 602 Literature Search & Research Proposal (2)
PHGY 604 Responsible Conduct in Research (0)
PHGY 607 Laboratory Research 1 (3)
PHGY 608 Laboratory Research 2 (3)
PHGY 620 Progress in Research (3)

Complementary Courses (6 credits)
3 credits of the following seminars in Chemical Biology
BIOC 610 Seminars in Chemical Biology 1 (1)
BIOC 689 Seminars in Chemical Biology 2 (1)
BIOC 611 Seminars in Chemical Biology 3 (1)
BIOC 690 Seminars in Chemical Biology 4 (1)

3 credits of the following:
CHEM 502 Advanced Bio-Organic Chemistry (3)
CHEM 503 Drug Design and Development 1 (3)
PHAR 503 Drug Discovery and Development 1 (3)

Existing M.Sc. in Physiology (45 credits)

Required Thesis Courses (27 credits)
PHGY 621 Thesis 1 (12)
PHGY 622 Thesis 2 (12)
PHGY 623 M.Sc. Final Seminar (3)
Required Courses (12 credits)
PHGY 601 M.Sc. Proposal Seminar (1)
PHGY 602 Literature Search & Research Proposal (2)
PHGY 604 Responsible Conduct in Research (0)
PHGY 607 Laboratory Research 1 (3)
PHGY 608 Laborarory Research 2 (3)
PHGY 620 Progress in Research (3)

ELECTIVE COURSES (6 credits)
Students must select 6 approved credits in Physiology or Science at the 500 level or above.

Attach extra page(s) as needed

10.0 Approvals

Routing Sequence	Name	Signature	Date
Department	Dr. John Orlowski		
Curric/Acad Committee	Dr. D. Ragsdale		
Faculty 1	Dr. E. Davis		
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name	Christine Pamplin
Phone	398-4343
Email	Christine.pamplin@mcgill.ca
Submission Date	

To be completed by ARR:

CIP Code