

Revision for PHAR 563

Proposal Reference : 9159
 Number
 PRN Alias : 14-15#382
 Version No : 3
 Submitted By : Ms Chantal Grignon
 Edited By : Ms Josie D'Amico

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Summary of Changes **Course Title, Course Description, Prerequisites, Supplementary Calendar Info**

	Current Data	New Data								
Program Affected?		Y								
Program Change Form Submitted?		Y								
Subject/Course/Term	PHAR 563 <ul style="list-style-type: none"> one term 									
Credit Weight or CEU's	3 credits.									
Course Activities	<ul style="list-style-type: none"> A - Lecture G - Small Group Teaching 									
Course Title	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>General Pharmacology 2</td> </tr> <tr> <td>Course Title on Calendar</td> <td>General Pharmacology 2.</td> </tr> </table>	Course Title on Transcript	General Pharmacology 2	Course Title on Calendar	General Pharmacology 2.	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Endocrine Pharmacology</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Endocrine Pharmacology</td> </tr> </table>	Course Title on Transcript	Endocrine Pharmacology	Course Title on Calendar	Endocrine Pharmacology
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Rationale		<p>The change in this course is part of a multi-year plan to modify the curriculum for B.Sc. Majors and Honors students in Pharmacology. The overall goal is to create a larger number of 500 level courses to provide students with more elective and fewer required courses in pharmacology. By increasing the number of course offerings, we will also achieve our second goal of decreasing enrolment in each individual course. The latter will facilitate our efforts to incorporate more student-directed learning at the 500 level. Historically, about 2/3 of the course content concerned reproductive and endocrine pharmacology. With this revision, this course will be dedicated entirely to these themes. Topics that will be lost include: pharmacogenomics, stem cells, and epigenetics. The majority of these topics will be covered in our new course offerings.</p>								

Responsible Instructor		Dr. Dan Bernard and Dr. Bernard Robaire
Course Description	Selected topics in pharmacology of the endocrine, metabolic, and cardiovascular systems. Additional topics include: pharmacogenetics/pharmacogenomics, chronopharmacology, molecular structure in pharmacology, epigenetic targets in cancer chemotherapy, and stem cell therapies.	This advanced course covers selected topics in pharmacology of reproductive, endocrine, and metabolic disorders.
Teaching Dept.	0253 : Pharmacology and Therapeutics	
Administering Faculty/Unit	SC : Faculty of Science	
Prerequisites	Prerequisite: PHAR 301.	Prerequisite: PHAR 301 or permission of the instructor(s) Web Registration Blocked? : <input type="checkbox"/> N
Corequisites		
Restrictions	<ul style="list-style-type: none"> Restriction: Open to U3 students in the minor, major or honours program in Pharmacology, or with permission of instructor. 	
Supplementary Calendar Info	1. Winter	1. Course material will be presented in the form of lectures and student-led presentations.
Additional Course Charges		
Campus		
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201601
File Attachments		<ul style="list-style-type: none"> PHAR 563 Endocrine Pharmacology Syllabus.pdf View
To be completed by the Faculty		

PHAR 563: Reproductive and Endocrine Pharmacology
(Winter 2016)

Course description:

This advanced course covers selected topics in pharmacology of reproductive, endocrine, and metabolic disorders.

Prerequisites:

PHAR300, PHAR301. Registration is capped at 50 students and is reserved for students in the Pharmacology Major and Honors programs.

Meeting place and times:

Tuesdays 1.5 h, time to be determined

Thursdays 1.5 h, time to be determined

Structure:

Course material will be presented in the form of lectures and student-led presentations.

Course reading materials and lecture slides:

The reading materials for this course will be review and/or primary data papers. All papers will be available in .pdf format on *MyCourses*. Lecture slides will be posted to *MyCourses* as .pdfs in advance of lectures [print copies of the slides will not be provided in class]. Lectures will be NOT be recorded.

Evaluation:

- 1) *Mid-term examination** (in class): February 9th; 1.5 hours; 40% of final course grade. Covers material from January 6th to February 2nd.
- 2) *Final examination**: Room(s) and date T.B.A.; 3 hours (60% of final grade). Covers material from February 12th to April 9th.

**Exams are comprised of multiple choice and short answer questions*

Coordinators:

Dan Bernard, Ph.D.

Office hours: by appointment

Contact information: daniel.bernard@mcgill.ca; Tel. x2525; McIntyre, room 1315

Bernard Robaire, Ph.D.

Office hours: by appointment

Contact information: bernard.robaire@mcgill.ca; Tel. x3630; McIntyre, room 109

Teaching assistant:

TBD

Office hours: by appointment

Contact information: TBD

Student presentations:

A total of seven class periods (1.5 h each) have been reserved for student presentations (see schedule). All students will be randomly assigned to groups of 3-4 students each. Each group will lecture to the rest of the class once during the semester. Groups will be presented with a question or questions related to the material discussed in professor-delivered lectures. The objective of the presentations is for students to answer the question(s) posed by critically evaluating the primary literature. Professors will provide all students with a relevant data or review paper on the topic. In addition, presenting students will be provided with additional review and/or data papers to help initiate their literature review. Students working in groups must then organize and deliver a presentation of no greater than 30 minutes. Ten minutes will be reserved for questions at the end of each presentation. On each 'student presentation day', two groups will present.

The professors and TA will be available to help in finding source materials (see more below) and in organizing the presentations. *Powerpoint files containing the presentation and a bibliography of source materials must be submitted to the TA by noon two days before the scheduled presentation.* This will allow for a final round of feedback. The final presentations must be submitted to the TA for upload by noon of the day of the presentation.

Source materials: Several papers will be provided for each group of presenters (available on *MyCourses*). This is not meant to be an exhaustive list, but rather a starting point. Students are expected to delve more extensively into the relevant primary literature (i.e., peer-reviewed data papers). Non-peer reviewed sources (e.g., web-based sources such as Wikipedia) and review papers are not acceptable sources for presentation, though these can be used to find relevant primary literature. For the most part, students should rely upon Pubmed searches to find relevant materials. Students must scrutinize and present original research findings. At the same time, students should not present individual papers figure by figure. This is not a journal club or small group format. Students need to **integrate** the relevant information from multiple sources to address the question(s) under consideration or debate.

Students will receive both group (10%) and individual (15%) marks. Therefore, it is important to work together as well as individually.

Class schedule:

<u>Date</u>	<u>Day</u>	<u>Topic</u>	<u>Instructor</u>
Jan. 5	Tu	Orientation/Female infertility	D. Bernard
Jan. 7	Th	Female infertility	D. Bernard
Jan. 12	Tu	Female contraception	D. Bernard
Jan. 14	Th	Female contraception	D. Bernard
Jan. 19	Tu	<i>Student Presentations</i>	D. Bernard
Jan. 21	Th	Male infertility and contraception	B. Robaire
Jan. 26	Tu	Male infertility and contraception	B. Robaire
Jan. 28	Th	Drugs and the aging male	B. Robaire
Feb. 2	Tu	Drugs and the aging male	B. Robaire
Feb. 4	Th	<i>Student Presentations</i>	B. Robaire
Feb. 9	Tu	Mid-term exam	
Feb. 11	Th	Diabetes	D. Bernard
Feb. 16	Tu	Diabetes	D. Bernard
Feb. 18	Th	<i>Student Presentations</i>	D. Bernard
Feb. 23	Tu	Obesity	D. Bernard
Feb. 27	Th	Obesity	D. Bernard
Mar. 1	M	<i>Reading week</i>	
Mar. 3	W	<i>Reading week</i>	
Mar. 8	Tu	<i>Student Presentations</i>	D. Bernard
Mar. 10	Th	Growth disorders	J. Trasler
Mar. 15	Tu	Growth disorders	J. Trasler
Mar. 17	Th	<i>Student Presentations</i>	J. Trasler
Mar. 22	Tu	Thyroid dysfunction	J. Trasler
Mar. 24	Th	Thyroid dysfunction	J. Trasler
Mar. 29	Tu	<i>Student Presentations</i>	J. Trasler
Mar. 31	Th	Osteoporosis and other disorders of bone	D. Bernard
Apr. 5	Tu	Osteoporosis and other disorders of bone	D. Bernard
Apr. 7	Th	<i>Student Presentations</i>	D. Bernard
T.B.D.		FINAL EXAM (3 h)	

Course lecturers:

<u>Name</u>	<u>email</u>
Dan Bernard	daniel.bernard@mcgill.ca
Bernard Robaire	bernard.robair@mcgill.ca
Jacquetta Trasler	jacquetta.trasler@mcgill.ca

MCGILL UNIVERSITY POLICY STATEMENTS:

- 1) McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see www.mcgill.ca/students/srr/honest/ for more information).

L'université McGill attache une haute importance à l'honnêteté académique. Il incombe par conséquent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions académiques, ainsi que les conséquences que peuvent avoir de telles actions, selon le Code de conduite de l'étudiant et des procédures disciplinaires (pour de plus amples renseignements, veuillez consulter le site www.mcgill.ca/students/srr/honest/).

- 2) In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.

Conformément à la Charte des droits de l'étudiant de l'Université McGill, chaque étudiant a le droit de soumettre en français ou en anglais tout travail écrit devant être noté (sauf dans le cas des cours dont l'un des objets est la maîtrise d'une langue).