

New Course

Proposal Reference Number : 9152
 PRN Alias : 14-15#375
 Version No : 4
 Submitted By : Ms Chantal Grignon
 Edited By : Ms Chantal Grignon

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New Data					
Program Affected?	Y				
Program Change Form Submitted?	Y				
Subject/Course/Term	PHAR 200 <ul style="list-style-type: none"> • one term 				
Credit Weight or CEU's	1 credits				
Course Activities	<table border="1"> <thead> <tr> <th>Schedule Type</th> <th>Hours per week</th> </tr> </thead> <tbody> <tr> <td>A - Lecture</td> <td>1</td> </tr> </tbody> </table>	Schedule Type	Hours per week	A - Lecture	1
	Schedule Type	Hours per week			
	A - Lecture	1			
Total Hours per Week : 1 Total Number of Weeks : 13					
Course Title	<table border="1"> <tbody> <tr> <td>Official Course Title :</td> <td>Introduction to Pharmacology 1</td> </tr> <tr> <td>Course Title in Calendar :</td> <td>Introduction to Pharmacology 1</td> </tr> </tbody> </table>	Official Course Title :	Introduction to Pharmacology 1	Course Title in Calendar :	Introduction to Pharmacology 1
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Course Title in Calendar :	Introduction to Pharmacology 1				
Rationale	<p>The goal of this new course is to introduce students enrolled in our Major program in Pharmacology to Pharmacology in U1. Currently, our students first encounter Pharmacology in U2 when they take courses in three fundamental areas of pharmacology (Drug Action, Drugs and Disease, and Principles of Toxicology). This new course will provide them with an early appreciation of research topics in Pharmacology, introduce them to our faculty members, and provide a forum for discussion of topics in Pharmacology in U1.</p>				
Responsible Instructor	Dr. Barbara Hales and Dr. Anne McKinney				
Course Description	<p>The objective of this course is to give U1 Pharmacology Major program students an appreciation of research in Pharmacology. The focus will be on contributions of this research to our understanding of how drugs work, strategies towards the discovery of new drugs, and/or on how use of current drugs may be improved based on this understanding.</p>				

Teaching Dept.	0253 : Pharmacology and Therapeutics
Administering Faculty/Unit	SC : Faculty of Science
Prerequisites	
Corequisites	
Restrictions	- Only open to students in the BSc. Major in Pharmacology.
Supplementary Calendar Info	
Additional Course Charges	
Campus	Downtown
Projected Enrollment	130
Requires Resources Not Currently Available	N
Explanation for Required Resources	
Required Text/Resources Sent To Library?	
Library Consulted About Availability of Resources?	
Consultation Reports Attached?	
Effective Term of Implementation	201509
File Attachments	<ul style="list-style-type: none"> • PHAR 200 Introduction to Research in Pharmacology 1 v3 Nov 21.pdf View
To be completed by the Faculty	
For Continuing Studies Use	

Approvals Summary

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Version No.	Departmental Curriculum Committee	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP	Version Status
4								Submitted to Curriculum/Academic Committee for approval Edited by: Chantal Grignon on: Nov 21 2014

3								Submitted to Curriculum/Academic Committee for approval Edited by: Chantal Grignon on: Nov 18 2014
2								Submitted to Curriculum/Academic Committee for approval Edited by: Chantal Grignon on: Nov 14 2014
1								Submitted to Curriculum/Academic Committee for approval Created on: Nov 14 2014

PHAR 200 Course Outline

Course title: Introduction to Pharmacology 1

Course coordinator: Barbara Hales and Anne McKinney

Course Description: The objective of this course is to give U1 Pharmacology Major program students an appreciation of research in Pharmacology. The focus will be on contributions of this research to our understanding of how drugs work, strategies towards the discovery of new drugs, and/or on how use of current drugs may be improved based on this understanding.

The first session will be an introduction to the course and to the field of Pharmacology. Subsequent classes will each be led a Professor in Pharmacology who will highlight aspects of research programs in Pharmacology.

Evaluation:

Letter grades will be assigned. Two “in class” examinations in the form of short answer questions will be held in the middle and at the end of the course. The midterm and final “in class” exams will be worth 50% each.

Examples of topics to be discussed include the following:

- Targeting the synthesis of pituitary hormones, Dan Bernard
- The role of brain glutamate receptors in health and disease, Derek Bowie
- The design of small-molecules and natural product analogues as novel drug candidates, Bastien Castagner
- Drug addiction: from nicotine to cocaine, amphetamine, or dopamine and rat ultrasonic communication, Paul Clarke
- Alzheimer’s disease related neuropathology, Claudio Cuello
- The other side of drug action: how teratogens cause birth defects, Barbara Hales
- G protein-coupled receptor (GPCR) wiring and their roles in health and disease, Terry Hebert
- Nanoparticle-based diagnostics and nano-delivery systems for therapeutic agents, Dusica Maysinger
- The mechanisms involved in development and maintenance of excitatory synapses in the CNS during physiological and pathological conditions, Anne McKinney
- The identification of novel targets to prevent and treat Alzheimer’s disease, Gerhard Multhaup
- Alzheimer’s disease: cholesterol metabolism and intramembrane proteases, Lisa Munter
- Mechanisms of cardiac bioelectricity and cardiac remodeling, Stanley Nattel