

# PRINCIPLES OF PHARMACOLOGY BIOM\*3090

Winter Semester 2011

## **Instructors:**

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## **Objectives:**

This course is designed to provide basic instruction in the principles of pharmacology and is intended primarily for students in the Honours Biomedical Sciences, Nutritional and Nutraceutical Sciences and Specialized Honours Toxicology majors, and other students who have an interest in the treatment of disease processes. The course will emphasize pharmacokinetic principles, drug-receptor interactions, mechanisms of drug action and toxicity and will provide an introduction to drugs that act on the nervous and cardiovascular systems.

## **Lecture Times & Location:**

Monday 9:30, Wednesday 9:30, Friday 9:30 in Alexander Hall 200 (formerly Axelrod).

## **Required Reading Material:**

- Basic and Clinical Pharmacology (Ed: Bertram Katzung, Susan Masters and Anthony Trevor). McGraw-Hill/Lange, New York, USA. 11<sup>th</sup> Edition, 2009.

## **Course WebSite:**

For class information, course outline, and grades please consult the course Desire2Learn site. Course notes will be available on this site in advance of the lectures.

## **Calculation of Course Grades:**

Five on-line quizzes will count for 10 % of the final grade (2 % per quiz). A **midterm examination** will be held on Wednesday March 2, 2011 from 5:30 to 6:50 pm in

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Rozanski Hall 104. The examination will count for 40% of the final grade and will include material up to and including lecture 18. The **final examination** will count for the remaining 50% of the grade and will be cumulative with particular emphasis on the material presented after February 18<sup>th</sup>. The final examination will be a 2 hour test, scheduled for April 15, 2011 from 8:30 to 10:30 and will be supervised by the Registrar's Office. All students will have the option of writing a **cumulative final examination** worth 90% of the final mark and covering the entire course material. Students must submit a written request to the course coordinator by the last class day (April 8<sup>th</sup>) in order to be granted this privilege. Any student that does not write the midterm and does not have documented medical or compassionate grounds for missing the midterm must write the cumulative final examination.

**Examination Protocol:** see "Student's Responsibilities" in the Undergraduate Calendar. Students will be required to place books and papers at the front or side of the class during the examination and bags, knapsacks and purses beneath their seats. The only supplies to be placed on the writing surface are: 2 pens, a pencil, ruler and a calculator [only if indicated by the instructor]. Do not bring valuable articles such as textbooks to the exam.

### **Course Evaluation:**

Students will be asked to complete an online questionnaire on instructors' teaching competence during the last two weeks of classes. This is part of the information required by the University to evaluate faculty performance for purposes of Tenure, Promotion and Selective Increases. Administered by a third party rather than the instructors, these evaluations will be delivered to the respective instructors ONLY after the final grades have been submitted to the Registrar's Office. Note: only the numerical ratings from the form will be made available to the Chair for administrative purposes - the Chair will NOT see any comments that are written on the evaluation forms unless signed by the student.

### **Academic Integrity:**

The University of Guelph takes a very serious view of Academic Misconduct. Included in this category are such activities as cheating on examinations, plagiarism, misrepresentation, and submitting the same material in two different courses without written permission. Students are expected to be familiar with the section on Academic Misconduct in the Graduate Calendar and should be aware that expulsion from the University is a possible penalty.

### **Accommodations for students with disabilities:**

In compliance with university policy, the course coordinator is available to discuss appropriate academic accommodations that may be required for students with disabilities. Requests for academic accommodations are to be made on the first day of classes so that arrangements can be made. Students should register with the Centre for Students with Disabilities to verify their eligibility for appropriate accommodations. It

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is the responsibility of the student to arrange these accommodations with the Centre for Students with Disabilities well in advance of the midterm and final examinations.

## LECTURE OUTLINE

Lecture #	Date	Subject	Instructor
1	Mon. Jan 10	Introduction to Pharmacology	Hanna
2	Wed. Jan 12	Pharmacokinetics	
3	Fri. Jan 14	Pharmacokinetics	
4	Mon. Jan 17	Pharmacokinetics	
5	Wed. Jan 19	Pharmacokinetics	
6	Fri. Jan 21	Pharmacokinetics	
7	Mon. Jan 24	Pharmacokinetics	
8	Wed. Jan 26	Pharmacodynamics	
9	Fri. Jan 28	Pharmacodynamics	
10	Mon. Jan 31	Pharmacodynamics	
11	Wed. Feb 2	Introduction to Autonomic Pharmacology	Kalisch
12	Fri. Feb 4	Introduction to Autonomic Pharmacology	
13	Mon. Feb 7	Cholinergic Agonist Drugs	
14	Wed. Feb 9	Cholinergic Antagonist Drugs	
15	Fri. Feb 11	Adrenergic Agonist Drugs	
16	Mon. Feb 14	Adrenergic Antagonist Drugs	
17	Wed. Feb 16	Midterm Review	
18	Fri. Feb 18	Autonomic Pharmacology - Applications	
<b><i>Monday February 21<sup>st</sup> to Friday February 25<sup>th</sup> Winter Break</i></b>			
19	Mon. Feb 28	Antihypertensive Drugs	

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Lecture #	Date	Subject	Instructor
20	Wed. March 2	Antihypertensive Drugs <b>MIDTERM EXAMINATION (5:30 to 6:50 ROZH104)</b>	
21	Fri. March 4	Drugs Used to Treat Heart Failure	
22	Mon. Mar 7	Drugs Used to Treat Angina	
23	Wed. Mar 9	Drugs Used to Treat Arrhythmias	
24	Fri. Mar 11* (40 <sup>th</sup> class day)	Introduction to CNS Pharmacology	
25	Mon. Mar 14	Parkinsonism	
26	Wed. Mar 16	Antipsychotic Agents and Lithium	
27	Fri. Mar 18	Antidepressants	
28	Mon. Mar 21	Sedative Hypnotics & Alcohol	
29	Wed. Mar 23	Drugs of Abuse	
30	Fri. Mar 25	Preanesthetic Drugs and Anesthetics	Hanna
31	Mon. Mar 28	Preanesthetic Drugs and Anesthetics	
32	Wed. Mar 30	Preanesthetic Drugs and Anesthetics	
33	Fri. April 1	Preanesthetic Drugs and Anesthetics	
34	Mon. April 4	Preanesthetic Drugs and Anesthetics	
35	Wed. Apr 6	Preanesthetic Drugs and Anesthetics	
36	Fri. Apr 8	Preanesthetic Drugs and Anesthetics	

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