

PHARMACOLOGY

BIOM*4090

Fall 2011

This draft outline issued Feb 2011; final outline to be issued Sep 2011

Coordinator

Dr. Brad Hanna (Coordinator)

Biomedical Sciences; Ext. 54534; Room 1646D, Building 39, OVC; bhanna@uoguelph.ca

Instructors

Primary instructor to be announced

Dr. Andrew Peregrine

Pathobiology; Ext. 54714; Room 3825, Pathobiology Building, OVC; aperegri@ovc.uoguelph.ca

Objectives

This course is the second in a two-course introduction to pharmacology (the first being BIOM*3090). Drugs used in the treatment of inflammatory, allergic, hormonal, infectious, parasitic, neoplastic, and hemorrhagic/thromboembolic diseases will be discussed from a systemic perspective. By the end of this course students should understand the mechanisms of action of selected drugs and be able to relate these to both the desired clinical effects and any common toxicological or “side” effects of the agents.

Lecture Times & Location

Monday, Wednesday & Friday at 8:30 a.m., ALEX 100.

Recommended Reading Material:

- Lippincott’s Illustrated Reviews: Pharmacology (Ed: Harvey RA and Champ PC), Wolters Kluwer – Lippincott Williams & Wilkins, Philadelphia USA. 4th Edition, 2009 (or 3rd edition). An electronic version can be purchased at a reduced price (www.lww.com/ebooks).
- Basic & Clinical Pharmacology (Ed: Katzung BG), McGraw-Hill/Lange, New York, USA. 11th Edition, 2009.

Course Website

Lecture notes will be available for downloading via D2L before each lecture.

CALCULATION OF COURSE GRADES

Tentative; may change: A midterm examination will be held (date and time to be announced). This examination will count for 40% of the final grade and includes material presented up to and including LECTURE 17. The final examination will count for the remaining 60% of the grade and will be comprehensive (but with a major emphasis on material presented from LECTURE 18 until the end of the course). All students will have the option of writing a cumulative final examination worth 100% of the final grade that will cover all subjects discussed in the course; students must submit a written request to the course coordinator before noon on December 1st in order to be granted this privilege. The final examination is scheduled for (date and time to be announced).

Fall 2010 Lecture Schedule (To be modified for 2011)

#	Date	Subject	Instructor
1	Sep 10	TBA for 2011	
Drugs used in the treatment of disorders of the blood			
2	Sep 13	Drugs Used in Hemorrhagic Disease	
3	Sep 15	Drugs Used in Thromboembolic Disease	
4	Sep 17	Antihyperlipidemic Drugs	
Drugs used in the treatment of cancer			
5	Sep 20	Principles of Cancer Development	
6	Sep 22	Anticancer Drugs	
7	Sep 24	Anticancer Drugs	
8	Sep 27	Anticancer Drugs	
Drugs used in the treatment of infections			
9	Sep 29	Antiviral Drugs	
10	Oct 1	Antiviral Drugs	
11	Oct 4	Principles of Antibacterial Drug Therapy	
12	Oct 6	Beta-Lactams	
13	Oct 8	Aminoglycosides	
Thanksgiving Holiday (Oct 11)			
14	Oct 13	Tetracyclines	
15	Oct 15	Sulfonamides	
16	Oct 18	Fluoroquinolones	
17	Oct 20	Macrolides, Chloramphenicol	
18	Oct 22	Antifungal Drugs	
Midterm Exam TBA			
Drugs used in the treatment of inflammation			
19	Oct 27	Inflammation	
20	Oct 29	NSAIDS	
21	Nov 1	Glucocorticoids	
Special Topic			
22	Nov 3	Nutraceuticals	
Drugs used in the treatment of endocrine disorders			
23	Nov 5	Introduction to Endocrine Pharmacology	
24	Nov 8	Endocrine Pancreas	
25	Nov 10	Endocrine Pancreas	
26	Nov 12	Adrenal Axis	
27	Nov 15	Thyroid Gland	
28	Nov 17	Gonadal Axis I	
29	Nov 19	Gonadal Axis II	
30	Nov 22	Posterior Pituitary and Bone-Mineral Homeostasis	
31	Nov 24	GH-IGF and review	
Drugs used in the treatment of parasitic infestations			
32	Nov 26	Antiparasitic Drugs	Peregrine
33	Nov 29	Antiparasitic Drugs	Peregrine
34	Dec 1	Antiparasitic Drugs	Peregrine

Note: 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 Undergraduate Calendar and should be aware that expulsion from the University is a possible penalty.

COURSE EVALUATION

Students will be asked to complete a questionnaire on the instructors' teaching abilities following their final lectures or 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 and promotion. It will be administered by a third party and the evaluations will be delivered to the instructors only after the final grades have been submitted to the Registrar's Office.

Note: the department Chair will see all numerical ratings, but only those comments that are accompanied by a student name (electronic selection in on-line evaluations, or a legibly printed name and a signature when submitting a paper evaluation).

ELECTRONIC RECORDING OF CLASSES

The electronic recording of classes is expressly forbidden without the prior written consent of the instructor. This prohibition extends to all components of the course, including, but not limited to, lectures and seminars, whether conducted by the instructor, a student, or any other designated person. When recordings are permitted they are permitted solely for the private use of the authorized student and may not be reproduced or disseminated in any manner without the express written consent of the instructor.