



PHA 4107

Introductory Pharmacology: Drugs and Living Systems Winter 2023 (Jan.9 – April 6)

Mondays 8:30-10:00 AM 55 Laurier (DMS) 1160
Thursdays 10:00-11:30 AM 55 Laurier (DMS) 1160

Jan. 9	General Principles Introduction to Pharmacology, Classification of drugs Molecular Receptor Pharmacology I Nuclear Receptors / RTKs	C. Pratt
Jan. 12	Molecular Receptor Pharmacology II G-protein Coupled Receptors and Ionotropic Receptors	C. Pratt
Jan. 16	Pharmacokinetics/dynamics I Administration, Absorption, Distribution, Biotransformation, CYP450s	D. Burger
	Jan. 19 D. Burger	Pharmacokinetics/dynamics II Elimination, Repeated Doses, Agonism, Antagonism
Jan.23	Autonomic Nervous System I Overview of autonomic nervous system (ANS) & Mechanisms of drug actions	W. Liang
	Jan. 26 W. Liang	Autonomic Nervous System II Drugs for Sympathetic Nervous System
Jan. 30 Liang	Autonomic Nervous System III Drugs for Cholinergic Neurons	W.
-----lectures Jan. 9-30 inclusive on Midterm #1-----		
Feb. 2	CNS Pharmacology I Antipsychotics/Antidepressants	C. Pratt

Feb. 6	MIDTERM EXAM #1 (lectures up to Jan 27)	30%
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Feb.9	CNS Pharmacology II Anxiolytics and Street Drugs	C. Pratt
Feb.13	Viruses and Anti-viral therapeutics	M. Coté
Feb.16	Cardiovascular Pharmacology I Drugs for Heart Failure	W. Liang
Feb.19-25	STUDY BREAK Holiday ☺	
Feb.27	Cardiovascular Pharmacology II Drugs for Ischemic Heart Disease	W.Liang
Mar. 2	Cardiovascular Pharmacology III Drugs for Hypertension	W. Liang

-----lectures Feb.2 -Mar.2 inclusive on Midterm #2-----

Mar. 6	MIDTERM EXAM #2	25%
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Mar.9	Gastrointestinal Pharmacology Anatacids, H2 Antagonists, Proton Pump Inhibitors, Prokinetic Agents, Antibiotics	C. Pratt
Mar.13	Neoplasia and Chemotherapeutics	C. Pratt
Mar.16	Antimicrobials General Principles, Cell wall/protein synthesis inhibitors	F.Pagotto
Mar.20	Antimicrobials Folate Inhibitors/ Anti-mycobacterial Drugs	F.Pagotto
Mar.23	Opioids in Analgesia	C. Pratt
Mar.27	Anti-inflammatory Drugs I (NSAIDs)	C. Pratt
Mar.30	Anti-inflammatory Drugs II (Steroids/DMARDs)	C. Pratt
Apr.3	The age of Biologics	C.Pratt
Apr.6	An aging population Some novel therapeutic targets and approaches	C.Pratt

April TBA

FINAL EXAMINATION 45%

Please see website for regulations regarding examinations

Course Information:

Evaluations: Mid-term examination #1 (30%)
 Mid-term examination #2 (25%)
 Final examination (45%)

Material covered on the final examination will **not** be cumulative. All exams will be formatted as selected response (MCQ) type questions. The % of each midterm cannot be changed.

Website: **BrightSpace**

Recommended Reference Textbook

Pharmacology, 6th Edition by George M. Brenner, PhD and Craig Stevens, PhD

540 pages, Copyright 2010 ISBN-13: 9781416066279

Description

Pharmacology is a succinct textbook that allows you to move through pharmacology at an accelerated pace, while showing you how to apply the most important concepts ... Online access to Student Consult—featuring with the complete contents of the book...convenient chapter-by-chapter summaries...and much more...enhances your study and exponentially boosts your reference power. The all-new, full-color format in the new edition—combined with a consistent chapter organization—makes learning and review efficient, while straightforward and clear illustrations explain difficult concepts and help you with retention of the material. Thorough revisions throughout provide you with the latest information on pharmacology, and all-new review questions at the end of each chapter help you assess your mastery of the subject to prepare you for ...course exams. Elsevier Canada

This textbook is available at the University of Ottawa Bookstore.

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Office hours:

Please email ahead so that I can reserve time for your appointment. You can also email other instructors directly for questions pertaining to their lectures.

Policy regarding missed exams due to illness:

Missing an exam is a serious matter. If you have to miss an exam *due to illness* you must meet the following criteria in order to be considered for a deferred exam:

- 1- You must notify the course coordinator (Dr. Pratt) **before** the exam begins.
- 2- You have **5 days from the day of the exam** to provide appropriate medical documentation indicating that you were seen by a physician **on or before the exam** day and found by that health care provider to be too ill on exam day to write your exam. If you test positive using the COVID19 rapid antigen test **on the day of the exam** you will be required to email an image of the test cassette beside your student number on the day of the exam. Make sure you have available COVID19 antigen tests at the beginning of the semester in the event that you become infected.
- 3- If you don't write the regular or deferred exam, you'll obtain **a zero** for that section of the course.

You should familiarize yourself with the University's academic regulations and the policy on Medical Certificates. <https://www2.uottawa.ca/about-us/policies-regulations>

Excerpt from Academic regulations:

Students can request a maximum of one (1) deferred evaluation per course, and this evaluation must be taken as soon as possible and within six (6) months after the end of the term. Deferred exam dates/times are set by the Faculty and cannot be changed.

Note: Deferred exams are NOT the same as the exam given in class.