1 Course Details

1.1 Calendar Description
This course will introduce students to the basic principles of pharmacology. Topics to be covered include pharmacokinetics and drug-receptor interactions as well as the mechanism of action and toxicity of drugs acting on the cardiovascular and central nervous system.

Pre-Requisite(s): BIOC*2580, (1 of ANSC*3080, BIOM*3200, HK*3810, HK*3940, ZOO*3200, ZOO*3600)

1.2 Course Description
This course is intended primarily for students in the BSc Honours Bio-Medical Sciences, Biomedical Toxicology, Neuroscience, Nutritional and Nutraceutical Sciences majors, Biomedical Engineering and other students who have an interest in the treatment of disease processes.

1.3 Timetable
Timetable is subject to change. Please see WebAdvisor for the latest information.

1.4 Final Exam
The final exam has been scheduled for April 17, 2019 from 7:00 to 9:00 PM. The location will be provided at a later date. Please see WebAdvisor for the latest information.

2 Instructional Support

2.1 Instructional Support Team
Instructor: Brad Hanna Dr.
Email: bhanna@uoguelph.ca
Telephone: +1-519-824-4120 x54534
Office: OVC 1646D
Instructor: Ron Johnson Dr.
Email: rjohns03@uoguelph.ca
Telephone: +1-519-824-4120 x54041
Office: OVC 1683
Course Co-ordinator: Bettina Kalisch Dr.
Email: bkalisch@uoguelph.ca
Telephone: +1-519-824-4120 x54939
Office: OVC 1646F

2.2 Teaching Assistant(s)

Teaching Assistant: Samantha Lyster
Email: slyster@uoguelph.ca

3 Learning Resources

Course WebSite:

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

3.1 Recommended Resource(s)


4 Learning Outcomes

5 Teaching and Learning Activities

Lecture Times & Location:

Monday 9:30, Wednesday 9:30, Friday 9:30 in Rozanski Hall room 101.

5.1 Lecture

Mon, Jan 7

Topic(s): Introduction to Therapeutics

Instructor: Kalisch/Hanna
Wed, Jan 9

Topic(s): Introduction to Therapeutics
Instructor: Hanna

Fri, Jan 11

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Mon, Jan 14

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Wed, Jan 16

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Fri, Jan 18

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Mon, Jan 21

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Wed, Jan 23

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Fri, Jan 25

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson

Mon, Jan 28

Topic(s): Pharmacokinetics/Pharmacodynamics
Instructor: Johnson
Wed, Jan 30

Topic(s): Introduction to Autonomic Pharmacology
Instructor: Kalisch

Fri, Feb 1

Topic(s): Introduction to Autonomic Pharmacology
Instructor: Kalisch

Mon, Feb 4

Topic(s): Cholinergic Agonist Drugs
Instructor: Kalisch

Wed, Feb 6

Topic(s): Cholinergic Antagonist Drugs
Instructor: Kalisch

Fri, Feb 8

Topic(s): Adrenergic Agonist Drugs
Instructor: Kalisch

Mon, Feb 11

Topic(s): Adrenergic Antagonist Drugs
Instructor: Kalisch

Wed, Feb 13

Topic(s): Autonomic Applications & Review
Instructor: Kalisch

Fri, Feb 15

Topic(s): Study day – no lecture scheduled

Mon, Feb 18 - Fri, Feb 22

Topic(s): Winter Break

Mon, Feb 25
Topic(s): Antihypertensive Drugs/Midterm Review
Instructor: Johnson/Kalisch

Wed, Feb 27

Topic(s): Antihypertensive Drugs
Instructor: Kalisch

Fri, Mar 1

Topic(s): Drugs Used to Treat Heart Failure
Instructor: Kalisch

Mon, Mar 4

Topic(s): Drugs Used to Treat Angina
Instructor: Kalisch

Wed, Mar 6

Topic(s): Drugs Used to Treat Arrhythmias
Instructor: Kalisch

Fri, Mar 8

Topic(s): Introduction to CNS Pharmacology
Instructor: Kalisch

40th class day

Mon, Mar 11

Topic(s): Parkinsonism
Instructor: Kalisch

Wed, Mar 13

Topic(s): Antipsychotic Agents and Lithium
Instructor: Kalisch

Fri, Mar 15
Topic(s): Antidepressants
Instructor: Kalisch

Mon, Mar 18
Topic(s): Sedative Hypnotics & Alcohol
Instructor: Kalisch

Wed, Mar 20
Topic(s): Drugs of Abuse
Instructor: Kalisch

Fri, Mar 22
Topic(s): Preanesthetic Drugs and Anesthetics
Instructor: Hanna

Mon, Mar 25
Topic(s): Preanesthetic Drugs and Anesthetics
Instructor: Hanna

Wed, Mar 27
Topic(s): Preanesthetic Drugs and Anesthetics
Instructor: Hanna

Fri, Mar 29
Topic(s): Preanesthetic Drugs and Anesthetics
Instructor: Hanna

Mon, Apr 1
Topic(s): Preanesthetic Drugs and Anesthetics
Instructor: Hanna

Wed, Apr 3
Topic(s): Preanesthetic Drugs and Anesthetics
Instructor: Hanna

Fri, Apr 5
6 Assessments

6.1 Assessment Details

Online Quizzes (10%)
Five online quizzes (see schedule below) will count for 10% of the final grade (2% per quiz).

Quiz Schedule:

Quiz 1 Pharmacokinetics/Pharmacodynamics: January 28 to February 4, 2019
Quiz 2 Autonomic Pharmacology: February 13 to February 20, 2019
Quiz 3 Cardiovascular Pharmacology: March 6 to March 13, 2019
Quiz 4 CNS Pharmacology: March 20 to March 27, 2019
Quiz 5 Pre-anesthetics and anesthetics: April 3 to April 10, 2019

Midterm Examination (40%)
The midterm examination will take place during the week of February 25th. The date, time and location will be updated on CourseLink once scheduling confirmation is received from the Registrar's office.

The exam will consist of multiple choice and short-answer questions and covers material up to and including lecture 17.

Final Examination (50%)
Date: Thu, Apr 18, 7:00 PM - , 9:00 PM
The final examination will emphasize the material presented in lectures 19 to 36. The final examination 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. This exam will be written at the same time and location as the 50% final exam. Students must sign up for the cumulative final by noon on Thursday April 11, 2019 in order to be granted this privilege. This sign-up list will be made available on the BIOM*3090 CourseLink site during the last two weeks of class. Any student who does not write the midterm and does not have documented medical or compassionate grounds for deferring the midterm must write the cumulative final examination. All examinations will consist of multiple choice and short answer questions.
7 Course Statements

7.1 Exam Protocol

See “Student’s Responsibilities” in the Undergraduate Calendar. Students will be required to place bags, knapsacks, books and papers at the front or side of the class during the examination and jackets and purses beneath their seats. Cell phones should be turned off. The only supplies to be placed on the writing surface are: pens, pencils, erasers, highlighters, a ruler and a calculator [only if indicated by the instructor]. Do not bring valuable articles to the exam.

7.2 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.

8 University Statements

8.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

8.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml

Graduate Calendar - Grounds for Academic Consideration
https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml

8.3 Drop Date

Courses that are one semester long must be dropped by the end of the fortieth class day;
two-semester courses must be dropped by the last day of the add period in the second semester. The regulations and procedures for course registration are available in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Dropping Courses  
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml

Graduate Calendar - Registration Changes  
https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-regregchg.shtml

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day.

More information can be found on the SAS website  
https://www.uoguelph.ca/sas

8.6 Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community—faculty, staff, and students—to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff, and students have the responsibility of supporting an environment that encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before
submitting it. Students who are in any doubt as to whether an action on their part could be
c construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-
amisconduct.shtml

Graduate Calendar - Academic Misconduct
https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml

8.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be
recorded or copied without the permission of the presenter, whether the instructor, a student,
or guest lecturer. Material recorded with permission is restricted to use for that course unless
further permission is granted.

8.8 Resources

The Academic Calendars are the source of information about the University of Guelph’s
procedures, policies, and regulations that apply to undergraduate, graduate, and diploma
programs.

Academic Calendars
https://www.uoguelph.ca/academics/calendars