



BIOM*4090 Pharmacology

Fall 2020

Section(s): 01

Department of Biomedical Sciences

Credit Weight: 0.50

Version 4.00 - September 08, 2020

1 Course Details

1.1 Calendar Description

Topics covered in this course include drugs used in the treatment of inflammatory, allergic, hormonal, infectious, neoplastic and hemorrhagic/thromboembolic disease. The focus will be on drug targets and mechanisms of action that explain therapeutic and toxicological effects.

Pre-Requisites: BIOM*3090

1.2 Course Description

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 common adverse drug reactions.

1.3 Timetable

This course will be taught asynchronously: there are no specific hours during which students must engage with learning materials.

1.4 Final Exam

There is no final exam. A schedule of assessments will be posted on Courselink.

2 Instructional Support

2.1 Instructional Support Team

Instructor: Neil MacLusky BSc (Hons), PhD
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Course Co-ordinator: Brad Hanna BSc, DVM, MSc, PhD
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2.2 Teaching Assistants

Teaching Assistant: Narman Mortagy
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Please contact teaching assistants only for purposes listed on Courselink. Content-related questions should be posted on Courselink Discussion Boards (where available); all other enquiries should be directed to the relevant instructor or course coordinator.

Teaching Assistant: Jessica Ruffolo
Email: jruffolo@uoguelph.ca

Please contact teaching assistants only for purposes listed on Courselink. Content-related questions should be posted on Courselink Discussion Boards (where available); all other enquiries should be directed to the relevant instructor or course coordinator.

3 Learning Resources

3.1 Recommended Resources

Principles of Pharmacology, the Pathophysiologic Basis of Drug Therapy. Golan, Tashjian, Armstrong, and Armstrong, fourth edition, 2016. (Textbook)

4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Relate the mechanisms of action of selected drugs (those used in the treatment of inflammatory, hormonal, infectious, parasitic, neoplastic, and hemorrhagic/thromboembolic diseases) to their desired clinical effects and any common adverse drug reactions.
 2. At an introductory level, make or compare treatment recommendations based on your knowledge of these drugs.
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5 Teaching and Learning Activities

A schedule of lecture topics will be provided on the course website. We recommend that you engage with each activity on the day it appears in the schedule.

6 Assessments

6.1 Assessment Details

Module assignments/tests (100%)

Each instructor will give one or more assignments, open-book tests, or remotely invigilated exams, during or upon completion of their modules. These will constitute the entire grade for those modules and there will be no collective midterm or final exams.

Students who are unable to complete an assessment by the deadline will, at the instructor's discretion, either (1) have the weighting of that assessment added to other assessments set by that instructor, or (2) be required to complete a test or assignment on that subject before or during the final examination period.

Module 1: Endocrine Pharmacology, 29%.

Module 2: Antimicrobial Pharmacology, 21%.

Module 3: Anti-inflammatory Pharmacology, 7%.

Module 4: Drugs Used to Treat Blood Disorders, 10%.

Module 5: Antiviral Pharmacology, 11%.

Module 6: Anticancer Pharmacology, 12%.

Module 7: Antiparasitic Pharmacology, 10%.

7 Course Statements

7.1 Course WebSite

For course information, subject outline, assessment dates, and grades, please consult the course website (accessible via Courselink).

Instructors will aim to post learning materials on Courselink by 7 pm the evening before each scheduled learning activity.

7.2 Communicating with faculty during the pandemic

Due to the emergency, we will not have opportunities before or after class for answering questions this fall. If all questions are handled by e-mail, the volume of messages could become overwhelming at times (some faculty are teaching in several courses with hundreds of students). To minimize the chances of that occurring, we ask that you check Courselink Discussion Boards (where these have been established) when you have a content-related question, to see if it has been answered, and post your question there if it has not. If no discussion board has been established for the topic you wish to discuss, please contact the relevant instructor, or - *if directed to do so for a specific assignment or topic* - a teaching assistant. We will usually be able to reply to e-mail quickly, but there will be times during the semester when you may not receive a reply for 1-2 business days, depending on the volume of mail we are receiving and other work-related responsibilities.

7.3 Netiquette

Inappropriate online behaviour will be referred to the office of the Associate Dean (Students and Academic) for investigation.

The range of possible penalties is listed in the Undergraduate Calendar, Section VIII: Undergraduate Degree Regulations and Procedures, Academic Misconduct, Penalties, Part A: Range of Penalties That May be Assessed, which includes loss of marks, loss of university scholarships or bursaries, suspension or expulsion from the university, and other penalties, depending on the offence.

Examples of inappropriate online behaviour include:

- Posting inflammatory messages about your instructor or fellow students
- Using obscene or offensive language online
- Copying or presenting someone else's work as your own
- Adapting information from the Internet without using proper citations or references
- Buying or selling term papers or assignments
- Posting or selling course materials to course notes websites
- Having someone else complete your quiz or completing a quiz for/with another student
- Stating false claims about lost quiz answers or other assignment submissions
- Threatening or harassing a student or instructor online
- Discriminating against fellow students, instructors and/or TAs
- Using the course website to promote profit-driven products or services
- Attempting to compromise the security or functionality of the learning management system
- Sharing your user name and password
- Recording lectures without the permission of the instructor

7.4 Course Evaluation

Students may be asked to complete a questionnaire on the instructors' on-line teaching abilities, either following the instructor's final learning activity or during the last two weeks of classes. If any evaluations of faculty teaching performance are held this semester, they will be administered by a third party and the results will be delivered to the instructors only after the final grades have been submitted to the Registrar's Office. 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). These evaluations are used for tenure and promotion purposes.

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>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic 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-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.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.

For Guelph students, information can be found on the SAS website
<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

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 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>

8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

8.10 Illness

The University will not normally require verification of illness (doctor's notes) for fall 2020 or winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.
