

Department of Physiology and Pharmacology

Pharmacology 2060B: Introduction to Pharmacology and Therapeutics

Course outline for Winter 2022



Although this academic year might be different, Western University is committed to a **thriving campus**. We encourage you to check out the [Digital Student Experience](#) website to manage your academics and well-being. Additionally, the following link provides available resources to support students on and off campus: <https://www.uwo.ca/health/>.

1. Technical Requirements:



Stable internet connection



Laptop or computer



Working webcam

2. Important Dates:



Classes Resume	Reading Week	Classes End	Study day(s)	Exam Period
January 10	February 19–27	April 8	April 9	April 10–30

* March 7, 2022: Last day to drop a second-term half course or a second-term full course without penalty

3. Contact Information



Course Coordinator	Contact Information
Andrea Di Sebastiano	adiseba@uwo.ca

TAs	Contact Information
Chen Jun Gao	cgao52@uwo.ca
Qinli Guo	qguo52@uwo.ca
Jiwon Hahm	jhahm2@uwo.ca

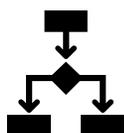
4. Course Description and Design

Delivery Mode: Online, Asynchronous

A course for students in the BSc in Nursing and other Health Sciences programs as well as students in BSc and BSc programs, to provide a basic understanding of the fundamentals of drug action and the mechanisms of action and therapeutic use of the important classes of drugs.

Antirequisite(s): Pharmacology 3620.

Pre-or Corequisite(s): One of Biology 1001A or Biology 1201A and one of Biology 1002B or Biology 1202B; or registration in the BSc in Nursing.



Timetabled Sessions

Component	Date(s)	Time
Virtual asynchronous lecture	N/A	0.5 – 1.5 hours/week

All course material will be posted to OWL: <http://owl.uwo.ca>. Any changes will be indicated on the OWL site and discussed with the class.

If students need assistance, they can seek support on the [OWL Help page](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

[Google Chrome](#) or [Mozilla Firefox](#) are the preferred browsers to optimally use OWL; update your browsers frequently. Students interested in evaluating their internet speed, please click [here](#).

5. Learning Outcomes

Upon successful completion of this course, students will be able to:

- Describe the principles that determine how pharmacological agents get into and are handled by the body.
- Describe the principles that determine how pharmacological agents act in the body to produce a pharmacological effect.
- Identify the main therapeutic actions and side effects of pharmacological agents commonly used in clinical practice.



6. Course Content and Schedule



Week	Dates	Topic
1	Jan 10–14	Module 1: Chemistry of Pharmacology Module 2: Pharmacokinetics – Absorption
2	Jan 17–21	Module 3: Pharmacokinetics – Distribution Module 4: Pharmacokinetics – Metabolism
3	Jan 24–28	Module 5: Pharmacokinetics – Excretion Module 6: Clinical Pharmacokinetics
4	Jan 31–Feb 4	Module 7: Pharmacodynamics – Dose Response Relationships Module 8: Pharmacodynamics – Drug Receptor Interactions
5	Feb 7–11	Module 9: Pharmacodynamics – Therapeutic Index Module 10: Adverse Drug Reactions and Medications Errors Module 11: Drug Interactions
6	Feb 14–18	Module 12: Drugs to Lower Cholesterol and Triglycerides
7	Feb 21–25	Reading Week
8	Feb 28–Mar 4	Module 13: Pharmacotherapy of Hypertension
9	Mar 7–11	Module 14A: CNS Pharmacology, Part 1
10	Mar 14–18	Module 14B: CNS Pharmacology, Part 2
11	Mar 21–25	Module 15: Drugs to treat Diabetes
12	Mar 28–Apr 1	Module 16: Antibiotics
13	Apr 4–Apr 8	Module 17: Cancer Chemotherapy

7. Participation and Engagement



- Students are expected to participate and engage with content as much as possible
- Students can also participate by interacting in the forums with their peers and instructors

8. Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.

Assessment	Format	Weighting	Due Date
Quiz #1 (Modules 1-6)	Multiple Choice	2%	Open Friday Jan 28 at 4 pm, closed Monday Jan 31 at 11:55pm
Quiz #2 (Modules 7-11)	Multiple Choice	2%	Open Friday Feb 11 at 4 pm, closed Monday Feb 14 at 11:55pm
Quiz #3 (Modules 12-13)	Multiple Choice	2%	Open Friday Mar 11 at 4 pm, closed Mon Mar 14 at 11:55pm
Midterm	Multiple Choice	40%	March 5 2022 at 1 pm – 1.5 hours
Quiz #4 (Module 14)	Multiple Choice	2%	Open Friday Mar 25 at 4 pm, closed Monday Mar 28 at 11:55pm
Quiz #5 (Module 15-17)	Multiple Choice	2%	Open Wednesday Apr 6 at 4 pm, closed Saturday April 9 at 11:55pm
Final Exam	Multiple Choice	50%	TBD – during final exam period April 10-30



- All assignments are due at 11:55 pm EST unless otherwise specified
- After an assessment is returned, students should wait 24 hours to digest feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days

Click [here](#) for a detailed and comprehensive set of policies and regulations concerning examinations and grading. The table below outlines the University-wide grade descriptors.

A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which is clearly above average
B	70-79	Good work, meeting all requirements, and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable
F	below 50	Fail

Information about late or missed evaluations:

- Late assessments without self-reported absences or accommodation will receive a grade of 0%.
- Late assessments with self-reported absences or accommodation should be submitted within 24 hours of the end of the self-report or accommodation (e.g., due Mon 11:55 pm; self-report covers Sun/Mon; new deadline is Tues by 11:55 pm OR 24 hours after the end of the accommodation period)
- An assessment cannot be submitted after it has been returned to the class, the weight will be transferred to the final grade.
- One make-up test will be offered March 8, 2021, and if missed, the weight of a missed test will be transferred to the final exam.
- If a make-up assessment is missed with documentation, the student will receive an INC and complete the task the next time the course is offered

9. Communication:



- Students should check the OWL site every 24 – 48 hours
- Students should email their instructor(s) and teaching assistant(s) using [email, OWL, MS Teams, etc.]
- Emails will be monitored daily; students will receive a response in 24 – 48 hours
- This course will use the OWL forum for discussions
- Students should post all course-related queries on the discussion forum so that everyone can access the questions and responses

10. Office Hours:



- Office hours will be held virtually
- Office hours will be booked individually via e-mail

11. Resources



- All resources will be posted in OWL

12. Professionalism & Privacy:



Western students are expected to follow the [Student Code of Conduct](#). Additionally, the following expectations and professional conduct apply to this course:

- All course materials created by the instructor(s) are copyrighted and cannot be sold/shared
- Recordings are not permitted (audio or video) without explicit permission
- Permitted recordings are not to be distributed
- Students will be expected to take an academic integrity pledge before some assessments

13. How to Be Successful in this Class:



Students enrolled in this class should understand the level of autonomy and self-discipline required to be successful.

1. Invest in a planner or application to keep track of your courses. Populate all your deadlines at the start of the term and schedule time at the start of each week to get organized and manage your time.
2. Make it a daily habit to log onto OWL to ensure you have seen everything posted to help you succeed in this class.
3. Follow weekly checklists created on OWL or create your own to help you stay on track.
4. Take notes as you go through the lesson material. Treat this course as you would a face-to-face course. Keeping handwritten notes or even notes on a regular Word document will help you learn more effectively than just reading or watching the videos.
5. Connect with others. Try forming an online study group and try meeting on a weekly basis for study and peer support.
6. Do not be afraid to ask questions. If you are struggling with a topic, check the online discussion boards or contact your instructor(s) and or teaching assistant(s).

7. Reward yourself for successes. It seems easier to motivate ourselves knowing that there is something waiting for us at the end of the task.

14. Western Academic Policies and Statements

Absence from Course Commitments

[Policy on Academic Consideration for Student Absences](#)

If you are unable to meet a course requirement due to illness or other serious circumstances, you must seek approval for the absence as soon as possible. Approval can be granted either through a **self-reported absence** or via the **Academic Counselling** unit. Students have two self-reports to use throughout the academic year; absence from course commitments including tests, quizzes, presentations, labs, and assignments that are worth 30% or less can be self-reported. Self-reported absences cover a student for 48 hours (yesterday + today or today + tomorrow). Your instructor will receive notification of your consideration; however, you should contact your instructor immediately regarding your absence. Students are expected to submit missed work within 24 hours of the end of the 48-hour period. Please review details of the [university's policy on academic consideration for student absences](#).

If you have used both their self-reported absences or will miss more than 48 hours of course requirements, a Student Medical Certificate (SMC) should be signed by a licensed medical or mental health practitioner and you should contact academic counselling. Academic Counselling will be operating virtually this year and can be contacted at scibmsac@uwo.ca.

Accommodation for Religious Holidays

The policy on Accommodation for Religious Holidays can be viewed [here](#).

Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates. These dates as well as other important information about examinations and academic standing can be found [here](#).

Academic Offences

"Scholastic offences are taken seriously, and students are directed [here](#) to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence.

Accessibility Statement

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#).

Correspondence Statement

The centrally administered **e-mail account** provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. You can read about the privacy and security of the UWO email accounts [here](#).

Discovery Credit Statement

Students are permitted to designate up to 1.0 Discovery Credit course (or equivalent) for pass/fail grading that can be counted toward the overall course credits required for their degree program. The details of this policy and the deadlines can be found [here](#).

Turnitin and other similarity review software

All assignments will be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. Students will be able to view their results before the final submission. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and [Turnitin.com](#).

15. BMSUE Academic Policies and Statements

Cell Phone and Electronic Device Policy (for in-person tests and exams)

The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, i.e., cell phones, tablets, cameras, or iPod are strictly prohibited. These devices **MUST** be left either at home or with the student's bag/jacket at the front of the room and **MUST NOT** be at the test/exam desk or in the individual's pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

Copyright and Audio/Video Recording Statement

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. You must always ask permission to record another individual and you should never share or distribute recordings.

Rounding of Marks Statement

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. **Final grades** on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks **WILL NOT** be bumped to the next grade or GPA, e.g. a 79 will **NOT** be bumped up to an 80, an 84 **WILL NOT** be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark "bumping" will be denied.

16. Support Services

The following links provide information about support services at Western University.

[Academic Counselling \(Science and Basic Medical Sciences\)](#)

[Appeal Procedures](#)

[Registrarial Services](#)

[Student Development Services](#)

[Student Health Services](#)