

Physiology and Pharmacology
Physiology 1020- Introduction to Physiology

Course outline for Fall/Winter 2023-2024



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

2. Important Dates:



Classes Begin	Reading Week	Classes End	Study day(s)	Exam Period
September 7	October 31– November 6	December 8	December 9	December 10–22

* November 30, 2023: Last day to drop a first-term full course without penalty

Classes Resume	Reading Week	Classes End	Study day(s)	Exam Period
January 8	February 17–25	April 8	April 9-10	April 11–30

3. Contact Information



Course Coordinator	Contact Information
Dr. Shelby Oke	OWL messages

Teaching Assistants	Contact Information
Jasleen Grewal	OWL messages
Robert Menzies	OWL messages
Zina Zein Abdin	OWL messages
Ajaya Sharma	OWL messages

4. Course Description and Design

Delivery Mode: blended

A survey course outlining the principles of human/mammalian physiology: general properties of the living cell and internal environment; neural, muscle, cardiovascular, respiratory, gastrointestinal, renal and endocrine system; metabolism, reproduction, and homeostasis.

Antirequisite(s): Physiology 1020, Physiology 1021, Physiology 3120. Prerequisite(s): First-year courses in Biology and Chemistry are recommended.



- Asynchronous pre-work must be completed 1 day prior to sessions
- Missed work should be completed within 24 hours
- A recording will be provided of the sessions

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:

- Learn basic facts, concepts, and principles regarding the function of the human body.
- Define physiological processes.
- Integrate information from multiple physiological systems.
- Apply their knowledge to clinical and disease situations.

6. Course Content and Schedule

Week	Dates	Topic
1	Sept 7 – 10	Module 1-3 – Homeostasis, Body Fluids, Cells
2	Sept 11 – 17	Module 4 – Nerves
3	Sept 18 – 24	Module 5 – Muscles
4	Sept 25 – Oct 1	Module 6 – first half - EPSPs
5	Oct 2 – 8	Module 6-second half - IPSPs
6	Oct 9 –15	Module 7- first half – Sensory, Vision
7	Oct 16 – 22	Module 7- second half – Sensory, Auditory
8	Oct 23 – 29	Module 8 – first half – Cardiac Anatomy
9	Oct 30 – Nov 5	Reading Week
10	Nov 6 – 12	Module 8- second half – Cardiac Cycle
11	Nov 13 – 19	Module 9 – first half - Vasculature
12	Nov 20 – 26	Module 9- second half - Baroreceptors
13	Nov 27 – Dec 3	Module 10 – first half – Respiration
14	Dec 4 – 8	No new material – Study days

Week	Dates	Topic
1	Jan 8 – 14	Module 10 – second half – Respiration
2	Jan 15 – 21	Module 11 – first half - Renal
3	Jan 22 – 28	Module 11 – second half – Renal
4	Jan 29 – Feb 4	Module 12 – pH
5	Feb 5 – 11	Module 13 – first half – Endocrinology
6	Feb 12 – 18	Module 13 - second half – Endocrinology
7	Feb 19 – 25	Reading Week
8	Feb 26 – Mar 3	Module 14- first half – Reproduction
9	Mar 4 – Mar 10	Module 14 – second half – Reproduction
10	Mar 11 – 17	Module 15 – first half – Digestion
11	Mar 18 – 24	Module 15 – second half – Digestion
12	Mar 25 – 31	Module 16 – Metabolism
13	Apr 1 – Apr 7	No new material

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
- Students can also participate in tutorials
- Students can also participate by attending office hours

8. Evaluation:

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

Assessment	Format	Weighting	Due Date	Make-up Date
Test #1	In-person	10%	Nov 11 – 9-10 AM	Nov 16 – 7-8 PM
Midterm	In-person	20%	December Exam	Most likely the first week back in January 2024
Test #2	In-person	20%	March 2 – 9-11 AM	March 14 – 7-9 PM
Final Exam	In-person	34%	April exam period	Most likely the second week of May.
Quizzes	Online	2% each for a total of 16%.	1. Sept 18 - 24 2. Oct 2 - 8 3. Oct 16 - 22 4. Dec 4 - 8 5. Jan 22 - 28 6. Feb 12 - 18 7. Mar 18 - 24 8. Apr 5 – 8 – these dates follow a different pattern due to the end of the course	Only make-up dates are provided. Any quizzes missed with an accommodation will have the weight moved to the other quizzes. If a quiz is missed without an accommodation will be given a zero.

- 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.
- The top 7 quiz grades will be used for a final grade, and the lowest quiz grade will be dropped.
- Students MUST complete at least FOUR of the quizzes to pass the course.
- Students MUST pass (60%) at least one of Test #1, Midterm, Test #2, or Final to pass the course.

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	Fail

Information about late or missed evaluations:

- Missed evaluations without an accommodation will be subject to a zero.
- One make-up test will be offered. If missed, the weight will be transferred to the final exam.
- At least four quizzes, the Final Exam, and either two of Test #1, Midterm, or Test #2 must be completed to pass the course, otherwise the course will be marked as incomplete.
- 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.

INC (Incomplete Standing): If a student has been approved by the Academic Counselling Office (in consultation with the instructor/department) to complete term work at a later date, an INC will be assigned. Students with INC will have their course load in subsequent terms reduced to allow them to complete outstanding course work.

Students may request permission from Academic Counselling to carry a full course load for the term the incomplete course work is scheduled.

SPC (Special examination): If a student has been approved by the Academic Counselling Office to write a Special Examination and the final exam is the only outstanding course component, an SPC will be assigned. If the class has a makeup exam, the student is expected to write the makeup exam. If the class doesn't have a makeup exam or the student misses the makeup exam for reasons approved by the Academic Counselling Office, the student will write the exam the next time the course is offered. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in [Types of Examinations](#) policy.

9. Communication:



- Students should check the OWL site every 24 – 48 hours
- Students should message their instructor and teaching assistant(s) using OWL
- Emails will be monitored daily; students will receive a response in 24 – 48 hours between the hours of 8:30 AM – 4:30 PM, Monday to Friday.
- This course will use the Forum and Zoom 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 remotely using Zoom
- Office hours will be held by appointment
- Office hours will be booked using the Sign in Tab
- Office hours will be individual/possibly group

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

A. Absence for medical illness:

Students must familiarize themselves with the [Accommodation for Illness Policy](#).

A student seeking academic accommodation for any **work worth less than 10%** must follow the course specific instructions provided on the course outline. **Please see section 8 for details on how missed assignments worth less than 10% will be addressed this year.**

If you are unable to meet a course requirement for any **work worth 10% or greater** due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to the Academic Counseling as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. Please note that the format of a make-up test, exam, or assignment is at the discretion of the course coordinator.

A student requiring academic accommodation due to illness should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found at: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf

B. Absence for non-medical reasons:

Student absences might also be approved for non-medical reasons such as religious holidays and compassionate situations. Please review the policy on [Accommodation for Religious Holidays](#). All non-medical requests must be processed by Academic Counselling. Not all absences will be approved; pay attention to the academic calendar and final exam period when booking any trips.

C. 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 Offenses

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](#). *Note: first-year students are not eligible*

15% Rule

According to the [Evaluation of Academic Performance](#) policy, at least three days prior to the deadline for withdrawal from a 1000- or 2000-level course without academic penalty, students will receive an assessment of work accounting for at least 15% of their final grade. Generally, students can expect some form of feedback on their performance in a course before the drop date. In rare instances, at the Dean's discretion, an exemption can be issued, which also must be noted in the course syllabus. Deans should review exemptions on a course-by-course basis each time an exempted course is offered.

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, smart glasses, watches, 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.

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at

https://www.uwo.ca/health/student_support/survivor_support/get-help.html.

To connect with a case manager or set up an appointment, please contact support@uwo.ca.

[Academic Counselling \(Nursing\)](#)

[Grade Appeal Procedures](#)

[Registrar Services](#)

[Academic Support & Engagement Services](#)

[Student Health Services](#)