

Physiology and Pharmacology
Physiology 2130- Introduction to Physiology

Course outline for Fall/Winter 2021-2022



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/>.

For the FINAL exam, students will be allowed to elect whether they want to write online, using Proctortrack, or in-person. To select writing online, go to the Sign-Up tab in the OWL course site and click on ‘**Signing up to take the final exam online**’. Select one of the time slots, and sign up. Sign up will close on March 1, at 2 PM. No other action will be required. Please note, the details of this sign up do not actually reflect the date and time of the exam.

In the event of COVID related restrictions, the exam will be offered online ONLY through Proctortrack. Online exams will be given 30 minutes extra time in case of technical difficulties. In-person exams will not be given extra time.

For the Midterm exam, students who have another in-person exam and are already expected to be on campus will write in-person. Students who legitimately have no other in-person exams and are unable to travel to London can apply to write an online midterm and final exam. To do so, please message Dr. Bell through the OWL course site. In these situations, the online exam will be proctored using a remote proctoring service. By taking this course, these students are consenting to the use of this software and acknowledge that you will be required to provide personal information (including some biometric data) and the session will be recorded. Completion of this course will require these students to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western’s Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

1. Technical Requirements:



Stable internet connection



Laptop or computer

2. Important Dates:



Classes Begin	Reading Week	Classes End	Study day(s)	Exam Period
September 8	November 1–7	December 8	December 9	December 10–21

* November 12, 2021: Last day to drop a first-term full course without penalty

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

3. Contact Information



Course Coordinator	Contact Information
Dr. Bell	OWL messages

Instructor(s) or Teaching Assistant(s)	Contact Information

4. Course Description and Design

Delivery Mode: Online

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.

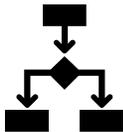
Antirequisite(s): Physiology 1020, Physiology 1021, Physiology 3120.

Prerequisite(s): First-year courses in Biology and Chemistry are recommended

Timetabled Sessions

Component	Date(s)	Time
Lectures: Online asynchronous	NA	5-7 hours

- 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](#).

Course Topics

Module 1 – Introduction to Human Physiology

Module 2 – Body Fluids

Module 3 - The Human Cell

Module 4 – The Nerve

Module 5- Muscle

Module 6- The Nervous System

Module 7- The Sensory System

Module 8- The Cardiovascular System

Module 9- The Circulatory System

Module 10- Respiratory System

Module 11- The Renal System

Module 12- Acid/Base Balance

Module 13- The Endocrine System

Module 14- The Reproductive System

Module 15- The Digestive System

Module 16- Metabolism

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



Fall Term			
Week	Dates	Topic	Instructor
1	Sept 8–12	Module 1-3	
2	Sept 13–19	Module 4	
3	Sept 20–26	Module 5	
4	Sept 27–Oct 3	Module 6 – first half	
5	Oct 4–10	Module 6-second half	
6	Oct 11–17	Module 7- first half	
7	Oct 18–24	Module 7- second half	
8	Oct 25–Oct 31	Module 8 – first half	
9	Nov 1–7	Reading Week	N/A
10	Nov 8–14	Module 8- second half	
11	Nov 15–21	Module 9 – first half	
12	Nov 22–28	Module 9- second half	
13	Nov 29–Dec 5	Module 10 – first half	
14	Dec 6–8	Study days	

Winter Term			
Week	Dates	Topic	Instructor
1	Jan 10–14	Module 10 – second half	
2	Jan 17–21	Module 11 – first half	
3	Jan 24–28	Module 11 – second half	
4	Jan 31–Feb 4	Module 12	
5	Feb 7–11	Module 13 – first half	
6	Feb 14–18	Module 13 - second half	
7	Feb 21–25	Reading Week	
8	Feb 28–Mar 4	Module 14- first half	N/A
9	Mar 7–11	Module 14 – second half	
10	Mar 14–18	Module 15 – first half	
11	Mar 21–25	Module 15 – second half	
12	Mar 28–Apr 1	Module 16	
13	April 4-8	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



8. Evaluation

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

Assessment	Format	Weighting	Dates
Test #1	Online	15%	Oct 25-Oct 27
Midterm	In-person	35%	Dec exam period
Test #2	Online	15%	Feb 14-Feb 16
Cumulative Final	In-person	35%	April exam period

- 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	Fail

Information about late or missed evaluations:

- Missed evaluations without self-reported absences or accommodation will be subject to a zero.
- 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 Fri 11:55 pm; self-report covers Fri/Sat; new deadline is Sun by 11:55 pm OR 24 hours after the end of the accommodation period)
- One make-up test will be offered for the midterm. If missed, the weight will be transferred to the final exam.
- One make-up will be offered for the final exam, most likely in May, 2022.
- Either two of Test #1, Test #2, or the Midterm must be completed, and the Final exam 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.

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 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 (Pending timetable options)
- Office hours will be booked using the Sign in Tab
- Office hours will be Individual

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 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](#).

Essay Course Guidelines

The guidelines for the minimum written assignments refer to the cumulative amount of written work in a course but excludes written work in examinations. You can read about essay course guidelines [here](#).

An essay course must normally involve total written assignments (essays or other appropriate prose composition, excluding examinations) as follows:

- Full course (1000 to 1999): at least 3000 words
- Half course (1000 to 1999): at least 1500 words
- Full course (2000 and above): at least 5000 words
- Half course (2000 and above): at least 2500 words

The structure of the essay course must be such that in order to pass the course, the student must exhibit some minimal level of competence in essay writing and the appropriate level of knowledge of the content of the course.

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](#)