

Fall 2021

BIOL 2040: Human Physiology I

Instructor: Dr. Kirsten Poling (she/her)

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Office hours: Mon 10-11 am and Tuesday 2-3 pm

TEXT: The textbook for this course is Human Physiology: From Cells to Systems, 5th Canadian edition by Sherwood and Ward. You are welcome to use a previous edition or another text if you want to buy a used book, but you are responsible for making certain you read the right material.

CLASS TIMES: This will be an asynchronous class, so lectures will be recorded and posted online for you to watch at your own timing. The only thing that will occur at the actual class time will be Exams I and II to ensure that there are no conflicts with other courses.

COURSE OBJECTIVES: Upon completion of this course, you should be familiar with basic physiological processes, and details of physiology of the nervous, muscular, and cardiovascular systems. You should be able to understand how these systems are integrated into whole body responses and be able to extrapolate what you have learned to relevant topics outside this course.

APPROXIMATE LECTURE SCHEDULE

Date	Topic	Readings	% course mark
Sept 13	Introduction to course and physiology	Ch 1.3, 1.4	
Sept 17	Interest inventory due		1
Sept 15 - Sept 20	Membranes + transport	Ch 2.6 - 2.9, parts of Ch 15.2	
Sept 22 - Oct 4	Membrane potential + action potentials	Ch 3.1 - 3.3	
Sept 24	Osmolarity/tonicity due		1
Oct 1	Exam practice due		1
Oct 6	Exam I		31
Oct 11-15	No class ☹☹☹		
Oct 18	Neuron integration	Ch 3.5	
Oct 22	Neuron practice due		1
Oct 20 - 27	CNS	Ch 4.1 – 4.10	
Nov 5	Neuron integration due		1
Nov 8	Exam II		31
Nov 1 - 10	PNS	Ch 5.2 - 5.10	
Nov 15 - 22	Muscle physiology	Ch 8.2 - 8.5, 8.7	
Nov 19	Vision and para/sympathetic due		1
Dec 1	NMJ/Muscle due		1
Nov 24 - Dec 8	Cardiovascular physiology	Ch 9.2 - 9.5, 10.2 – 10.6	
????	Final exam		31

GRADES: Please note that grades *will not be “curved” and I do not bump up grades* to meet scholarship requirements, etc. There are no “extra credit” assignments. Contact me about marks ONLY if there is a clear error in your mark (calculation, clerical, etc.) as soon as possible. It is highly unlikely that you will receive a response regarding any other mark-related queries.

ASSIGNMENTS: All assignments will be due by 5 pm on the assigned day unless otherwise noted. The short assignments will be provided online and are to be submitted online through Blackboard only. Please bear in mind that these are meant to be relatively short exercises that reinforce some of the harder concepts, but do not reflect all content that will be on exams. Please note that all assignments will have a 24-hr grace period (as per the clock on Blackboard) to account for time conflicts, technological issues, etc.

EXAMS: The two exams and the final will consist of multiple choice and short written-answer questions. Exams will be given during the dates designated on the calendar above and will be given online with a time limit of 1 hr 20 mins (the time allowed for the course). More information will be provided shortly before the exams occur. Students caught cheating on any exam will be dealt with as severely as possible under University rules (please see University website).

MAKE-UP EXAMS: You are expected to take the exams at the regularly scheduled times. Students missing exams for a legitimate reason (physician-confirmed illness, death in the family, or other **verifiable** personal crisis) will be offered a make-up exam. If you are too sick to come to the exam, you **MUST** bring a signed doctor's note as evidence. Make-up exams must be taken **within one week** of the scheduled exam date. Please note that make-up exams will not necessarily be of the same format (i.e., 50% multiple choice and 50% written) as the regularly scheduled exam.

LIFE GETS TRICKY SOMETIMES—TAKE CARE OF YOURSELF: Things do not always go according to plan in life, so stress is often a factor. While a certain amount of stress is normal and useful, undue stress that is out of control can be quite a burden. Above all else, your health is the most important thing. There are resources on campus and in the community that can help you work through things and get the support you might need.

Student Counselling Services (519-253-3000 ext. 4616) has a website (<http://www1.uwindsor.ca/scc/welcome-to-the-scc>) with a ton of resources including free access to WellTrack, a program and app that allows you to monitor your own wellbeing. You can also talk to a counsellor at Counselling Services or the Peer Support Centre (519-253-3000 ext 4551; <http://www.uwsa.ca/category/uwsa-services/peer-support-centre>). The Province also has a hotline for postsecondary students called Good2Talk that can be reached 24/7 at 1-866-925-5454.

REGRADES: *Due to variations in possible answers, it will be your responsibility to call attention to anything that might be acceptable as an alternate answer; it is also your responsibility to call errors in grading to my attention.* You have **one week after your exam/assignments** are returned to apply for a re-grade. All requests for a re-grade **must be in writing**. If you find a math error, this also must be brought to my attention within the one-week time limit but does not require a written request.

MISCONDUCT: Academic misconduct is not allowed in any form. This includes, but is not limited to, copying from another source (your friend, the internet, a text, etc.), allowing someone else to copy your work, allowing someone to complete your assignments, communication of any kind during an exam, using notes during an exam and providing or using forged notes and documentation. Any incidences will be referred to the Dean's office through the formal process as outlined in University Senate Bylaw 31. Because this is an extremely serious offence, I have included some examples of an excerpt of what entails academic misconduct from Bylaw 31 below. These are some of the common problems but **YOU ARE RESPONSIBLE FOR KNOWING WHAT CONSTITUTES ACADEMIC MISCONDUCT**. If you are unsure, please consult me, Bylaw 31 or both.

"Plagiarism: the act of copying, reproducing or paraphrasing portions of someone else's published or unpublished material (from any source, including the internet), without proper acknowledgement. Plagiarism applies to all intellectual endeavours: ...(Students have the responsibility to learn and use the conventions of documentation as accepted in their area of study.)"

"Submitting the same course work, research or assignment, or portions of the same course work, research or assignment, for credit on more than one occasion without the prior written permission of the instructor(s) in the course(s) involved. Taking part in unauthorized collaboration with another student which may include working in a group and submitting the same course work as one or more students, unless expressly permitted by the instructor."

"Copying or using unauthorized aids, or, without permission, working or receiving assistance from another, when writing tests or examinations (including take-home tests or examinations)."

"Allowing another student to copy one's academic work when one knows or has reason to believe the other student will be submitting the work for evaluation."