

# COURSE SYLLABUS



COURSE TITLE: BIOL-151-Human Physiology

CLASS SECTION: 001A & 001B

TERM: 2025W

COURSE CREDITS: 3

DELIVERY METHOD(S): In-person lectures and labs

Camosun College respectfully acknowledges that our campuses are situated on the territories of the Ləkʷəŋən (Songhees and Kosapsum) and WSÁNEĆ peoples. We honour their knowledge and welcome to all students who seek education here.

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## INSTRUCTOR DETAILS

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NAME: Dr. Farnoosh Farhoomand

Geoffrey Morris

EMAIL: [Farhoomandf@camosun.ca](mailto:Farhoomandf@camosun.ca)

[MorrisG@camosun.ca](mailto:MorrisG@camosun.ca)

OFFICE: F246

F340B

HOURS: Tuesday 1:00-2:00 pm, Thursday 12:30-1:30 pm

Tue 10:00-11:00am; Wed 11:30am-12:30pm;  
Thu 1:00-2:30pm; Fri (E201) 9:30-10:00am

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

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## CALENDAR DESCRIPTION

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This course is the companion to BIOL 150. It provides an overview of functional relationships within the human body. Physiological processes are studied at both the cellular and organ system level, with an emphasis on the maintenance of homeostasis. Laboratory exercises illustrate basic physiological principles.

### PREREQUISITE(S):

All of:

C in BIOL 150

And one of:

C in Chemistry 11

C in Camosun Alternative

## CO-REQUISITE(S):

Not Applicable

## EQUIVALENCIES:

BIOL 144

## COURSE LEARNING OUTCOMES / OBJECTIVES

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

Describe the concept of homeostasis and explain how it operates in the major physiological systems of the human body.

Demonstrate an understanding of the functioning of the major physiological systems of the human body at the cellular and systemic levels.

Explain how the major physiological systems of the body interact to bring about biological behaviors.

Understand how physiological processes are altered in injury or disease.

Apply anatomical vocabulary in a physiological context.

Perform laboratory procedures relevant to physiology (observe physiological phenomena, measure physiological data, organize / record / analyze results of physiological experiments).

Utilize critical thinking to apply physiological concepts to specific problem solving situations.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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a. Required Texts

i. Lab Manual:

*Biol 151 Lab Manual* (2025), Camosun College.

ii. Textbook:

*"Anatomy & Physiology"* by Elizabeth Mack Co

b. \*note: this should be the same anatomy & physiology text that was used for Biol 150 Human Anatomy last semester. If you have an anatomy-only textbook from a previous course, you may choose to purchase a physiology-only textbook for this course.

c. Additional, Optional Resources

Lab coats are encouraged, but *not required*. We will discuss this in greater detail during the first lab. OpenStax Anatomy & Physiology (<https://openstax.org/details/anatomy-and-physiology>) is a free, online textbook.

d. Knowledge of Prerequisite Material

It is important that you are familiar with material that has already been covered in the prerequisite courses, including Biol 150 (Human Anatomy) and Chemistry 11 (or equivalent). This information is necessary in order to understand many of the concepts covered in Biol 151. Students are expected to review the prerequisite material on their own, as needed, using Chapters 3 and 4 in the textbook and the resources posted on D2L.

**Lectures:**

Section 001 A/B:   Tuesdays:     11:30 am – 1:00 pm                   Fisher 302  
                           Wednesdays:   2:00 pm - 3:20 pm                   Fisher 302

**Labs:**

Section 001A:     Mondays:       6:30 pm - 9:20 pm                   Fisher 224  
 Section 001B:     Mondays:       2:30 pm - 5:20 pm                   Fisher 224

**COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION**

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

WEEK	DATE RANGE	Lecture Topic	Lab Topic
1	Jan. 6 – 10	Homeostasis (and course intro) Cell Membranes & Transport	Lab 1: Introduction to the physiology lab
2	Jan. 13 – 17	Neuronal Physiology	Lab 2: Movement of molecules
3	Jan. 20 – 24	Neuronal Physiology (cont'd, as needed) Senses	Lab 3: Nervous system
4	Jan. 27 – 31	Cardiovascular Physiology 1: Heart	Lab 4: Senses
5	Feb. 03 – 07	Cardiovascular Physiology 2: Blood vessels	Lab 5: Cardiovascular system and ECG
6	Feb. 10 – 14	Respiratory Physiology Thursday, Feb 13 <sup>th</sup> : <b>Lecture Midterm#1</b>	Lab 6: Dive reflex (and review)
7	Feb. 17 – 21	<b>Reading Break!</b> No classes this week	<b>NO LABS</b>
8	Feb. 24 – 28	Respiratory Physiology (cont'd) Renal Physiology	<b>Midterm Lab Exam (Labs 1-6)</b> and Lab 7: Respiratory system
9	Mar. 03 –07	Renal Physiology (cont'd) Digestion	Lab 8: Osmoregulation and urinalysis
10	Mar. 10 –14	Digestion (cont'd) and Metabolism Thursday, Mar. 13 <sup>th</sup> : <b>Lecture Midterm #2</b>	Lab 9: Digestion
11	Mar. 17 –21	Metabolism (cont'd, if needed) Muscle Physiology	Lab 10: Muscle contraction and EMG
12	Mar. 24 –28	Immunology Hematology (cont'd next week, if needed)	Lab 11: Immunology, hematology, and endocrine system
13	Mar.31- Apr. 04	Endocrine Physiology Reproduction: Gamete Formation	<b>Final Lab Exam (Labs 1-11)</b>
14	Apr. 07 –11	Reproduction: Pregnancy & Development	<b>NO LABS</b>
	Final Exam Period	<b>LECTURE FINAL EXAM</b> (Date and time scheduled by College Registrar)	

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page. https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams](https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams)

## EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
Lab Assignments (approx. 10)	10%
Midterm Lab Exam (in lab, Week 8: covers Labs 1-6)	10%
Final Lab Exam (in lab, Week 14: covers Labs 1-11)	15%
Other Assignments: <ul style="list-style-type: none"> <li>• Lecture-based assignments (5 of these, each worth 1% for a total of 5%)</li> <li>• Lab quizzes (10 of these, each worth 0.5% for a total of 5%)</li> </ul>	10%
Lecture Midterm #1 (Thursday, February 13th)	15%
Lecture Midterm #2 (Thursday, March 13th)	15%
Final Lecture Exam (during the final exam period, date/time/location TBA)	25%
<b>TOTAL</b>	<b>100%</b>

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](#) policy for more information.

<https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

### Attendance, Exams, and Submission of Assignments

It is expected that you will attend all lectures and labs. If you do miss a lecture, it is your responsibility to find out what you missed that day and get caught up. Attendance in the lab is required for completion of lab assignments. If you are unable to attend a lab due to illness or other extenuating circumstances, please contact your instructor as soon as possible to discuss possible arrangements.

Exams must be written at their scheduled time. This course will have two lecture midterms (scheduled and written during class time), one lab midterm exam and one final lab exam (scheduled and written during lab time), and one final exam (to be scheduled by the college registrar and written at the specified time during the final exam period). Please refer to the detailed course schedule above for the dates and times of these exams. In particular, please wait until after the final exam schedule has been posted before booking any travel

arrangements for the end of term. Ensure that your travel is scheduled for after the completion of your final exam for this class. The final exam schedule will be posted on myCamosun mid-February.

**\*\*If you are unable to write a scheduled exam due to extreme, extenuating circumstances, you must contact your instructor as soon as possible, prior to the exam. Missed exams will be scheduled to be written as soon as possible after the missed exam.**

All course assignments will have a specified due date. Be sure to submit all assignments on time to avoid deductions. A 10% deduction per day late will be applied to any assignments that are submitted after the due date/time. Extenuating circumstances will be considered. If you are unable to submit an assignment on time, please contact your instructor as early as possible to discuss possible arrangements. Submitting assignments on time will help you to keep up with the course material and receive timely feedback that will help you with other course assignments and exams.

Some course assignments will be group work; most course assignments will be individual work. When submitting your own, individual assignment, be sure that it is your work and yours alone. This applies even if you are working with a study group! I do encourage you to study and work with other students, but the work that you submit must still be your own.

These course expectations and policies will be discussed during the first week of classes. If you have any further questions, please contact your instructor.

### **Group Work**

During the lab component of the course, you will work in small groups to perform demonstrations and experiments. Aim for equal (not necessarily identical) participation of all group members. Discuss individual responsibilities within the group and include the instructor in these discussions as needed. Lab assignments will usually be submitted as individual work but may sometimes be submitted as group work. Details will be described each week in lab.

### **SCHOOL OR DEPARTMENTAL INFORMATION**

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**In order to pass the course, students are required to meet the minimum lab attendance, participation and completion requirements.**

- Laboratory activities involve practical applications of your knowledge and manual skills development. Development of these skills is a requirement to meet the Course Learning Outcomes.
- Meeting Course Learning Outcomes is a requirement for gaining credit in the course, as well as ensuring articulation, pre-requisite and transferability standards are met.
- Laboratory activities are in-person activities; attendance and participation are required. Online alternatives are not available.
- Laboratory attendance will be monitored by a sign-in/sign-out binder in the lab. It is your responsibility to record your attendance using this binder.
- Attendance from the sign-in/sign-out binder will be transferred to your D2L gradebook by your instructor. If you notice any discrepancies, please contact your instructor ASAP.
- If you arrive late to the lab, you may miss the opportunity to sign-in, and/or participate in graded assessments such as pre-lab quizzes.

### Missed Labs Guidelines:

- Students who will miss a laboratory session have an obligation to seek out concessions directly from their instructor in a timely manner, BEFORE the lab period occurs.
- If you miss up to three (3) laboratory sessions, you are still eligible to meet the Learning Outcomes for the course.
- Concessions offered for the first three (3) missed laboratory sessions will depend on the reason for laboratory absence and is up to instructor discretion. Concessions may include writing up the laboratory report with provided data, omitting the lab, or other concessions.
- If you miss a total of four (4) or more labs for any reason (including, but not limited to: life circumstances, legitimate illness or family/pet emergency, planned vacations, milestone family events, work commitments, childcare or eldercare commitments, competitive athletic events), you will be unable to meet with learning outcomes for the class and will receive a failing grade (F) in the entire course, regardless of marks received on graded lab and lecture components. Exceptions will only be considered through an academic concession granted by the instructor or Dean/ Associate Dean.
- This guideline applies to in-person laboratory activities only; for missed Lab Exams, please see the section in this outline on Exams.
- Please note that if you are suffering from a serious medical illness that prevents you from participating in this course, Camosun College has a Compassionate Medical Withdrawal Policy (<https://camosun.ca/services/forms#medical> )

### Lab Quizzes:

There will be lab quizzes at the beginning of some labs based on the material covered in the lab manual for the new week's lab. If you arrive late, you will not be able to write the quiz and will lose those marks. There will be no make-up lab quizzes. This means you need to read the lab manual and prepare for the lab you are about to do since you may be quizzed on this material when you arrive.

**PLEASE NOTE: if you arrive late (after the start of the lab) you will not be able to write the lab quiz. Any amount of time late is considered late.**

### Lab Exams:

#### Missed Lab Exams

**Without exception**, all lab exams must be written at the scheduled times. Lab exams differ from lecture exams in their formatting. Due to the nature of our shared lab space with other courses, lab exams cannot be made up outside of our regularly scheduled lab time. In the event of emergency circumstances (see lecture exam), it is up to the instructor whether an oral exam may be scheduled.

## STUDENT RESPONSIBILITY

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Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies;

demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit [camosun.ca/services](https://camosun.ca/services).

Support Service	Website
Academic Advising	<a href="https://camosun.ca/services/academic-supports/academic-advising">camosun.ca/services/academic-supports/academic-advising</a>
Accessible Learning	<a href="https://camosun.ca/services/academic-supports/accessible-learning">camosun.ca/services/academic-supports/accessible-learning</a>
Counselling	<a href="https://camosun.ca/services/health-and-wellness/counselling-centre">camosun.ca/services/health-and-wellness/counselling-centre</a>
Career Services	<a href="https://camosun.ca/services/co-operative-education-and-career-services">camosun.ca/services/co-operative-education-and-career-services</a>
Financial Aid and Awards	<a href="https://camosun.ca/registration-records/financial-aid-awards">camosun.ca/registration-records/financial-aid-awards</a>
Help Centres (Math/English/Science)	<a href="https://camosun.ca/services/academic-supports/help-centres">camosun.ca/services/academic-supports/help-centres</a>
Indigenous Student Support	<a href="https://camosun.ca/programs-courses/iecc/indigenous-student-services">camosun.ca/programs-courses/iecc/indigenous-student-services</a>
International Student Support	<a href="https://camosun.ca/international">camosun.ca/international</a>
Learning Skills	<a href="https://camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills">camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills</a>
Library	<a href="https://camosun.ca/services/library">camosun.ca/services/library</a>
Office of Student Support	<a href="https://camosun.ca/services/office-student-support">camosun.ca/services/office-student-support</a>
Ombudsperson	<a href="https://camosun.ca/services/ombudsperson">camosun.ca/services/ombudsperson</a>
Registration	<a href="https://camosun.ca/registration-records/registration">camosun.ca/registration-records/registration</a>
Technology Support	<a href="https://camosun.ca/services/its">camosun.ca/services/its</a>
Writing Centre	<a href="https://camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills">camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills</a>

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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### Academic Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>  
Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

### Academic Accommodations for Students with Disabilities

Camosun College is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging appropriate academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a documented disability and think you may need accommodations, you are strongly encouraged to contact the Centre for Accessible Learning (CAL) and register as early as possible. Please visit the CAL website for more information about the process of registering with CAL, including important deadlines: <https://camosun.ca/cal>

### Academic Progress

Please visit <https://camosun.ca/sites/default/files/2023-02/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### Course Withdrawals Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <https://camosun.ca/registration-records/tuition-fees#deadlines>.

### Grading Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal (see [Medical/Compassionate Withdrawals policy](#)). Please visit <https://camosun.ca/services/forms#medical> to learn more about the process involved in a medical/compassionate withdrawal.



## Sexual Violence

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence Policy: <https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and [camosun.ca/services/sexual-violence-support-and-education](https://camosun.ca/services/sexual-violence-support-and-education).

To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-370-3841

## Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

## Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.

