

# COURSE SYLLABUS



COURSE TITLE: AET 310: Pathophysiology

CLASS SECTION: X01

TERM: 2024F

COURSE CREDITS: 3

DELIVERY METHOD(S): Face to face on campus

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>.

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*This section of AET 310-X01 requires mandatory attendance for the first class meeting of the course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the "Attendance" section under "Registration Policies for Students" [Registration Policies for Students | Camosun College](#)*

## INSTRUCTOR DETAILS

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NAME: Jen Gow, PhD, CAT(C)

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

OFFICE: PISE 212E

HOURS: Thursdays from 10 am to 12 pm and Fridays from 11 am to 12 pm or by appointment only, please.

*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.*

## CALENDAR DESCRIPTION

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An advanced physiology course that investigates physiological states and their relationships to injury and disease. Focus is on the body's response to injury/disease, tissue healing and repair, and how the healing process relates to therapy and rehabilitative medicine.

Requisites:

One of: C in BIOL 144, C in BIOL 151 - Must be completed prior to taking this course.

## COURSE LEARNING OUTCOMES / OBJECTIVES

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*Upon successful course completion, students will be able to:*

Describe the disease process in terms of etiology, pathogenesis, morphology, clinical manifestations, and prognosis.

- Explain the meaning of reliability, validity, sensitivity, specificity, and predictive value as it relates to observations and tests used in the assessment of injury and disease.
- Explain primary, secondary and tertiary prevention.
- Demonstrate an understanding of the cellular changes which accompany injury and disease.
- Describe common diseases of body systems that are relevant to the usual practice of the athletic/exercise therapist.
- Identify manifestations of common diseases relevant to the practice of athletic/exercise therapy.
- Explain physiological responses of various body systems that would indicate homeostatic imbalance.
- Explain the cellular changes and different body system responses to injury and disease across the ages and various populations.
- Identify the considerations for cultural, ethnic, gender, age and functional ability differences in clientele.
- Demonstrate timely and appropriate interventions and referrals.
- Explain the internal physiology of the human body in normal function and disease states.

#### REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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"Essential of Pathophysiology: Concepts of Altered Health States" Porth, C.M., (2014) 4th Edition, Lippincott Williams & Wilkins, ISBN: 9781451190809.

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

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

WEEK	ACTIVITY and TOPIC
Week 1: Sept. 3 <sup>rd</sup> , 5 <sup>th</sup>	Course Introduction Ch 2- Cellular Response to Stress, Injury
Week 2: Sept. 10 <sup>th</sup> , 12 <sup>th</sup>	Ch 3- Inflammation Ch 4- Tissue Regeneration and Repair
Week 3: Sept. 17 <sup>th</sup> , 19 <sup>th</sup>	Ch 4 - Case Study, Ch 5- Genetic Control of Cell Function, Ch 7- Neoplasia
Week 4: Sept. 24 <sup>th</sup> , 26 <sup>th</sup>	Ch 7- Neoplasia Ch 8- Disorders of Fluid Balance
Week 5: Oct. 1 <sup>st</sup> , 3 <sup>rd</sup>	Ch 9 – Stress and Adaptation Ch 10- Disorders of Nutritional Status
Week 6: Oct. 8 <sup>th</sup> , 10 <sup>th</sup>	Ch 11- Disorders of WBCs
Week 7: Oct. 15 <sup>th</sup> , 17 <sup>th</sup>	Ch 12- Disorders of Hemostasis Review for Midterm Exam
<b>Week 8: Oct. 21<sup>st</sup>-25<sup>th</sup></b>	<b>BAET Midterm Exam Week</b>
Week 9: Oct. 29 <sup>th</sup> , 31 <sup>st</sup>	Ch 15 – Innate and Adaptive Immunity Ch 13- Disorders of RBCs

WEEK	ACTIVITY and TOPIC
Week 10: Nov. 5 <sup>th</sup> , 7 <sup>th</sup>	Ch 13- Disorders of RBCs Ch 18- Disorders of Blood Flow and Pressure
Week 11: Nov. 12 <sup>th</sup> , 14 <sup>th</sup>	Ch 18- Disorders of Blood Flow and Pressure Ch 19- Disorders of Cardiac Function Ch 19/20 Case Study
Week 12: Nov. 19 <sup>th</sup> , 21 <sup>st</sup>	Ch 20- Heart Failure and Circulatory Shock Ch 23 - Disorders of Ventilation
Week 13: Nov. 26 <sup>th</sup> , 28 <sup>th</sup>	Ch 33- Diabetes Mellitus and the Metabolic Syndrome Ch 43&44- Disorders of the Skeletal System
Week 14: Dec. 3 <sup>rd</sup> , 5 <sup>th</sup>	Ch 43&44- Disorders of the Skeletal System Ch 36- Disorders of neuromuscular function Ch 37- Disorders of brain function Review
Dec. 9 <sup>th</sup> -17 <sup>th</sup>	College Final Exam Period

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 noticed is required. Deadlines scan be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

## EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
<b>Midterm Exam</b> This exam will be written during the week of Oct 21 <sup>st</sup> -25 <sup>th</sup> and will focus on lecture material, D2L quizzes, textbook readings, and case studies discussed in lecture.	25%
<b>Final Exam</b> The final exam will be written during the final exam period and will examine lecture material, D2L quizzes, textbook readings, and case studies covered from the midterm onward.	33%
<b>Quizzes and Case Studies</b> Throughout the term, you will have homework assignments such as quizzes on D2L and in-class case studies/group work. <b>Please note that due dates for all homework assignments are SUBJECT TO CHANGE. Please check D2L FREQUENTLY for updates on homework due dates.</b>	22%
<b>Research Paper</b> Details will be provided in class.	20%
<b>TOTAL</b>	100%

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](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

### Meeting Information

Lectures on Tuesdays from 12-1:20 pm in PA 103 and Thursdays from 1-2:20 pm in TEC 181.

### Attendance, Exams, and Assignments

Students are expected to be present in class when there are case studies or group work to be completed. This work must be completed in class. Students are also responsible for catching up on any missed material by checking in with a peer for notes before contacting the instructor.

An excused absence includes a bonafide intercollegiate trip, permission of the instructor prior to absence, and compassionate reasons.

### *Midterm, Final Exam, and D2L Quiz Scheduling*

□ The lecture schedule listed above includes tentative dates for topics and group case study assignments; please note that they are subject to change. Revised dates will be announced in class – it is the student's responsibility to take note of revised dates.

□ The final exam is scheduled by the Registrar's office and will occur during the Fall Examination Period December 9<sup>th</sup>-17<sup>th</sup>, 2024. Students must write the final exam to pass the course.

□ Students who miss a midterm exam, final exam, D2L quiz, or group assignment for legitimate reasons (see 'excused absences' below) will be accommodated. All other reasons will not be accommodated for and you will get a mark of zero for the item you missed.

Exams: Midterm and final examinations must be written on the date scheduled. Final examinations may be scheduled at any time during the examination period; therefore, students should avoid making prior travel, employment, or other commitments for this period. All students are expected to write the final exam at the time, date, and location set by the Office of the Registrar. If a student is unable to write an exam through no fault of his, her, or their own, valid documentation must be provided and it must be discussed with the instructor well in advance of the exam date. If the student is absent for an exam and has not made arrangements with the instructor in advance, a zero grade will be applied.

### *Late Assignments*

Assignments handed in after the due date will not be evaluated. Extensions will not be granted for D2L quizzes. Students who miss assignments for legitimate reasons, such as an illness may be allowed to hand the assignment in late. All other reasons are unexcused and will not be accommodated for.

Papers and / or assignments that are deemed unacceptable by the faculty will be returned and receive an automatic 10% deduction on the grading of said item. Papers and / or assignments will receive a 10% per day deduction thereafter. After the 5th day, the assignment will receive a grade of 0%. Failure to turn in an assignment may result in an incomplete final grade being assigned for the course. Reasons that a faculty may deem an item unacceptable include, but are not limited to the following: grammar, spelling, content, punctuation, and inappropriate referencing/citations.

## *Use of Laptops, Tablets, Calculators, and Mobile Phones*

- Calculators are permitted during tests. Permission is restricted to non-programmable calculators only. Cell phone and watch calculators are not permitted.
- Cell phones are not to be used during class time. Please remove ear buds, headphones, etc. prior to entering the classroom.
- Please note that audio/video recordings and photos of lectures are prohibited, unless valid documentation for accommodations are provided by CAL (Center for Accessible Learning).

## 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 <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>

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Support Service	Website
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

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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 Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures”

(<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### 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. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

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 or misconduct 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 and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-3703841

### 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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**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.