

CLASS SYLLABUS



COURSE TITLE: MLAB 173 – Laboratory Pathophysiology
CLASS SECTION: BX01A-D
TERM: S2021
COURSE CREDITS: 3
DELIVERY METHOD(S): Synchronous, Blended

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](#).

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe. Our measures include COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. For details on these precautions please follow this link: <http://camosun.ca/covid19/faq/covid-fags-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor. If needed, alternatives will be discussed.

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 explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Tania Pozney
EMAIL: PozneyT@camosun.ca
OFFICE: CHW 317
HOURS: 10:30 – 11:30 Wednesday mornings

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

In this course, students review anatomic systems and discuss pathologies and conditions commonly investigated by medical laboratories. Students will focus on learning how tests required in hematology, chemistry, transfusion medicine, histology, cytology, and microbiology provides physicians with critical information for diagnosing, treating, and monitoring health conditions. Students learn how pathologies and conditions affect patient and client interactions and explore appropriate responses by the Medical Laboratory Assistant.

PREREQUISITE(S): MLAB 139

CO-REQUISITE(S):

PRE/CO-REQUISITE(S): MLAB 147

COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	3	14	42
Seminar			
Lab / Collaborative Learning	2	14	28
Supervised Field Practice			
Workplace Integrated Learning			
Online			
		TOTAL HOURS	70

COURSE LEARNING OUTCOMES

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

- demonstrate knowledge of tests and procedures used when collecting and handling specimens in hematology, chemistry, transfusion medicine, histology, cytology, and microbiology.
- discuss the nature, relationship, and effects of pathophysiologic processes on the human body as they pertain to the analysis conducted in medical laboratories for specimen handling and collections.
- classify commonly occurring pathological conditions investigated in laboratory sciences into the divisions of hematology, transfusion medicine, histology, cytology, and microbiology and describe the nature of each.
- apply knowledge of commonly investigated pathological conditions as they pertain to the components of laboratory testing procedures (professionalism, interpreting requests, planning and preparing for collecting procedures, establishing patient relationships, performing collection procedures, and pre-analytical preparation).

COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

(also known as “sub-outcomes” or “learning objectives”)

- Demonstrate knowledge of the fundamentals of terminology, anatomy & physiology, pathophysiology and disease transmission during the pre-analytical phase of specimen collection. (CSMLS 2.01) (BCSLS – Unit 2B)
- Knowledge and demonstration of procedures for collecting and handling specimens across all laboratory sciences divisions. (BCSLS – Unit 3F: 3.02, 3.01, Unit 3G)
- Understand the human body systems and their primary functions and structures as they relate to pathological conditions and the associated lab tests. (BCSLS Unit 2A: 2.01, Unit 2C: Competencies: Infection Control)

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Recommended Textbook:

Thibodeau, G. & Patton, K. (2018) The Human Body in Health & Disease, 7th Ed., St. Louis, MO: Elsevier

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	ACTIVITY or TOPIC	OTHER NOTES
1	<ul style="list-style-type: none"> Basics of Anatomy and Physiology Integumentary System Skeletal System 	Lecture + lab
2	<ul style="list-style-type: none"> Muscular System Nervous System Respiratory System 	Lecture +lab
3	<ul style="list-style-type: none"> Quiz #1 Cardiovascular System Lymphatic and Immune Systems Endocrine System 	Lecture +lab
4	<ul style="list-style-type: none"> Digestive System 	STAT holiday Monday
5	<ul style="list-style-type: none"> Quiz #2 Urinary System Reproductive System 	Lecture +lab
6	<ul style="list-style-type: none"> Hematology 	Lab 1
7	<ul style="list-style-type: none"> Quiz #3 Hematology 	Lab 1
8	<ul style="list-style-type: none"> Chemistry 	Lab 1
9	<ul style="list-style-type: none"> Chemistry 	Lab 1
10	<ul style="list-style-type: none"> Quiz #4 Transfusion Medicine 	Lab 2
11	<ul style="list-style-type: none"> Transfusion Medicine 	Lab 2
12	<ul style="list-style-type: none"> Quiz #5 Cytology and Histology 	Lab 2
13	<ul style="list-style-type: none"> Quiz #6 Cytology and Histology 	Lab 2
14	<ul style="list-style-type: none"> Final Review 	STAT Holiday Monday

Module	Topics	Readings	Assignments	Labs
1. Pathology	Intro to Course Basics of A&P		Weekly Quizzes or	

	Unit 1 - Integumentary/Skeletal System	Chapter 6 Human Anatomy and Physiology	Assignments based on topics – see D2L	Weeks 1-5 Virtual Lab/ Lecture
	Unit 2 – Muscular System			
	Unit 3 – Nervous System			
	Unit 4 – Respiratory System			
	Unit 5 – Cardiovascular System	Chapter 7 Circulatory, Lymphatic, and Immune Systems		
	Unit 6 – Lymphatic & Immune System			
	Unit 7 – Endocrine System			
	Unit 8 – Digestive System			
	Unit 9 – Urinary System			
	Unit 10 - Reproductive System			
2. Clinical Departments	Unit 11 - Hematology			Weeks 6-9 Anatomy and Physiology Lab
	Unit 12 - Chemistry			
	Unit 13 - Transfusion			
	Unit 14 – Cytology/Histology			Weeks 10-14 Clinical Department Lab
Finals Week				

STUDENT EVALUATION

DESCRIPTION	WEIGHTING
Lab activities and participation	10%
Quizzes (6)	30%
Assignments (7)	30%
Final	30%
	TOTAL
	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](#) policy for more information.

CLASS GUIDELINES & EXPECTATIONS

Student Assessment

Students must achieve a minimum of 65% in order to pass this course and use it as a prerequisite.

- Detailed information regarding assignments will be available on D2L.
- Skills checks have critical measurable values, if these values are not performed correctly or in the correct order this will result in a failure to meet requirements.
- Complete all assignments on time and submit on the designated due dates. In exceptional circumstances, students may request an extension; however that extension must be arranged with the instructor before the due date. Students who have not prearranged an extension will have 10% of the total possible mark deducted per day from late assignments.
- Incomplete assignments will not be accepted. All submissions must contain student name, C#, title and date.
- Unless otherwise stated, all assignments will be submitted via D2L.
 - In emergency circumstances, a student may arrange to take an assessment before or after the scheduled time if the student would otherwise be unable to complete the program or course. Exceptions due to emergency circumstances, such as unavoidable employment commitments, health problems, or unavoidable family crises, require the approval of the instructor. Holidays or scheduled flights are not considered to be emergencies. The student may be required to provide verification of the emergency circumstance.

(Camosun Academic Policy) <http://camosun.ca/learn/calendar/current/pdf/academic-policies.pdf>

Attendance

- Students are expected to be on time; tardiness disrupts the class. When students are more than 5 minutes late (and/or the classroom door is shut), they cannot enter the classroom until the class break period. While lectures are online, please enter the collaborate room quietly and without disruption
- If you choose not to or are unable to attend lecture it is your responsibility to acquire all information given during a class missed, incl. notes, hand-outs, assignments, changed exam dates etc. Email the instructor as a courtesy.
- Attendance of labs are mandatory and missed sessions will result in lost marks. See the D2L for a full description of the lab assessments.

- Missed exams cannot be made up except in case of documented illness (doctor's note required). The instructor must be informed that the students will be missing the exam before the exam start time.

SCHOOL OR DEPARTMENTAL INFORMATION

Health & Human Services Student Handbook: <http://camosun.ca/learn/school/health-human-services/student-info/index.html>

General Practicum Information: <http://camosun.ca/learn/school/health-human-services/student-info/practicum-info.html>

Allied Health & Technologies Department Handbooks:

- Certified Medical Laboratory Assistant: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/cmla.html>
- Diagnostic Medical Sonography: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/sono.html>
- Medical Radiography: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/mrad.html>

Students enrolled in Allied Health & Technologies Programs must achieve a minimum of 65% or a “COM” in each of their courses in order to use their course as a pre-requisite and progress in their program.

Students enrolled in Allied Health & Technologies Programs must participate in learning activities that include intimate and direct personal contact with their classmates during supervised practice. Students are training to perform the duties of a healthcare professional. These duties usually require constant, close physical contact with patients and clients. Students may be required to simulate and perform these activities on one another during this course. Students may also be required to use special hygiene practices and protective gear to protect themselves from the transmission of communicable diseases (like COVID-19). Risks associated with learning and performing the physical duties of a healthcare profession cannot be entirely eliminated by any amount of caution or protection. Students who refuse, or are incapable of participating and performing these activities due to personal or medical limitations, may only continue to participate in their course work when supported by officially registered accommodations or temporary medical advisory.

STUDENT RESPONSIBILITY

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

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	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

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

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. To contact the Office of Student Support: 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 <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.