

CLASS SYLLABUS



COURSE TITLE: MIDS 167 – Basics of ECG
CLASS SECTION: BX01A-H
TERM: F2022
COURSE CREDITS: 3
DELIVERY METHOD(S): 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](#).

<https://camosun.ca/about/covid-19-updates>

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: Jana Suraci
EMAIL: SuraciJ@camosun.ca
OFFICE: CHW 317 (Online meetings available)
HOURS: As per request

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 examine the anatomy, physiology, and pathology of the electrical conduction system of the heart. Students learn the theory and skills necessary to conduct diagnostically acceptable electrocardiograms (ECGs) on patients and clients with diverse conditions and capabilities. Students learn to correctly recognize and respond to errors and pathologies commonly discovered during 12lead ECG recordings and 24-hour Holter monitoring.

PREREQUISITE(S): **One of:** C in Biology 12; C in BIOL 090; C in BIOL 103
CO-REQUISITE(S): N/A
PRE/CO-REQUISITE(S): N/A

COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	3	14	
Seminar			
Lab / Collaborative Learning	2	14	
Supervised Field Practice			

TOTAL HOURS 70

COURSE LEARNING OUTCOMES

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

- identify and explain the relationship of cardiac anatomy, physiology, and pathology to lead placement and recorded results.
- describe and demonstrate correct patient preparation, lead placement, equipment operation, calibration, and maintenance, used in non-invasive cardiac testing.
- determine and apply appropriate corrective actions or alternate methodology for a sub-optimal ECG accounting for patient age and condition, common errors, and known causes of anomalies.
- complete the required number of technically accurate electrocardiograms in accordance with British Columbia Society of Laboratory Science (BCSLS) eligibility requirements for clinical practicum participation.

COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

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

5.2d Correlate results from cardiac testing (ECG, Holter monitoring, stress ECG).

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Aehlert, B. (2017) ECGs Made Easy 6th Edition

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	Lecture	Lab
1	Sept 5 STAT Holiday No face to face lecture.	Wed 8:30-10:20am Group E/F Wed 10:30-12:20pm Group G/H Fri 9:30-11:20am Group A/B Fri 12:30-2:20pm Group C/D Please meet in CHW Room 133 next to the MRAD Labs. Homework: 1. Cardiac Colouring Worksheet due by Thurs Sept 15 @ 11:59pm (completion mark)
2	Before Lecture: Read Chapter 1 Anatomy and Physiology Monday Sept 12 Lecture: Introduction and Course Overview Asynchronous lecture: Watch ECG Lecture Cardiac Anatomy Part 1-3	Wed Sept 14/Fri Sept 16 Labs Introduction and Basic Anatomy Homework: 1. Cardiac Colouring sheet (completion mark) Sept 15 @11:59pm 2. Cardiac Labeling Worksheet due by Thurs Sept 22 @ 11:59pm

3	<p>Before Lecture: Read Chapter 1 Anatomy and Physiology</p> <p>Monday Sept 19 Lecture: Cardiac Anatomy</p> <p>Asynchronous lecture: Watch ECG Lecture Cardiac Anatomy Part 4 and 5</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. Assignment 1: Cardiac Physiology and Blood Flow due Sept 29th @ 11:59pm 	<p>Wed Sept 21/Fri Sept 23 Labs Leads and Placement</p>
4	<p>Before Lecture: Read Chapter 2 Basics of Electrophysiology</p> <p>Monday Sept 26 Lecture: Basics of Electrophysiology</p> <p>Asynchronous Lecture: Basics of Electrophysiology</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. Assignment 1: Cardiac Physiology and Blood Flow due Sept 29th @ 11:59pm 2. QUIZ: Ch. 2 due Sun Oct 2nd @ 11:59pm (Open book) 	<p>Wed Sept 28/Fri Sept 30 (College Closed) Labs: No face to face labs Homework: 12 Lead Placement Worksheet Section A</p>
5	<p>Before lecture: Read Chapter 3 Sinus Mechanisms</p> <p>Monday Oct 3 Lecture: Interpretations of an ECG Tracing</p> <p>Asynchronous Lecture: Sinus Mechanisms</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. QUIZ: Ch. 3 due Oct 9th @ 11:59pm (Open book) 	<p>Wed Oct 5/Fri Oct 7 Labs 12 Lead ECGs/Seated ECG Before end of lab: Complete 12 Lead Placement Worksheet Section B.</p>
6	<p>Monday Oct 10: Thanksgiving. College closed. No lecture.</p> <p>Asynchronous Lecture: Study for Midterm</p>	<p>Wed Oct 12/Fri Oct 14 Labs Question Period for Midterm Before end of lab: Complete 12 Lead Placement Worksheet Section C.</p>
7	<p>Before lecture: Study! Then Read Chapter 4 Atrial Rhythms</p> <p>Monday Oct 17 Lecture: <u>In person Midterm</u></p> <p>Asynchronous Lecture: Atrial Rhythms</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. Assignment 2 ECG Rhythms – Study Guide due Nov 10th @ 11:59pm 	<p>Wed Oct 19/Fri Oct 21 Labs</p>
8	<p>Before lecture: Read Ch. 5 Intro to Junctional Rhythms</p> <p>Monday Oct 24 Lecture: Intro to Junctional Rhythms</p> <p>Asynchronous Lecture: Junctional Rhythms</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. QUIZ: Atrial & Junctional Rhythms due Oct 30th @ 11:59pm (Open book) 2. Assignment 2 ECG Rhythms – Study Guide due Nov 10th @ 11:59pm 	<p>Wed Oct 26/Fri Oct 28 Labs: Complete 12 Lead Placement Worksheet Section D</p>
9	<p>Before lecture: Read Ch. 6 Intro to Ventricular Rhythms</p>	<p>Wed Nov 2/Fri Nov 4 Labs</p>

	<p>Monday Oct 31 Lecture: Intro to Ventricular Rhythms</p> <p>Asynchronous Lecture: Intro to Ventricular Rhythms</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. QUIZ: Ch. 6 due Nov 6th @ 11:59pm (Open book) 2. Assignment 2 ECG Rhythms – Study Guide due Nov 10th @ 11:59pm 	
10	<p>Before lecture: Read Ch. 7 AV & BBB</p> <p>Monday Nov 7 Lecture: AV and BBB</p> <p>Asynchronous Lecture: AV and BBB</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. QUIZ: Ch. 7 due Nov 13th @ 11:59pm (Open book) 2. Assignment 2 ECG Rhythms – Study Guide due Nov 10th @ 11:59pm 	<p>Wed Nov 9/Fri Nov 11 (No face to face labs)</p> <p>Homework:</p> <p>QUIZ: Holter due Nov 17th @ 11:59pm</p>
11	<p>Before lecture: Read Ch. 8 Pacemaker Rhythms</p> <p>Monday Nov 14 Lecture: Pacemakers and ICDs</p> <p>Asynchronous Lecture: Pacemakers and ICDs</p> <p>Homework:</p> <ol style="list-style-type: none"> 1. Assignment 3 Patient Case Studies due Dec 4th @ 11:59pm 	<p>Wed Nov 16/Fri Nov 18 Labs</p>
12	<p>Before lecture: Read PDF</p> <p>Monday Nov 21 Lecture: Cardiac Pathologies</p> <p>Asynchronous Lecture: Cardiac Pathologies</p> <p>Homework:</p> <p>Assignment 3 Patient Case Studies due Dec 4th @ 11:59pm</p>	<p>Wed Nov 23/Fri Nov 25 Labs:</p> <p>12 Lead ECG Interpretation Worksheet Review/Practice before Practical Exam</p>
13	<p>Before lecture: PDF</p> <p>Monday Nov 28 Lecture: Cardiac Pathologies</p> <p>Asynchronous Lecture: Cardiac Pathologies</p> <p>Homework:</p> <p>Assignment 3 Patient Case Studies due Dec 4th @ 11:59pm</p>	<p>Wed Nov 30/Fri Dec 2 Practical Exam</p>
14	<p>Monday Dec 5: Review</p> <p>Homework:</p> <p>Assignment 3 Patient Case Studies due Dec 4th @ 11:59pm</p>	<p>Wed Dec 7/Fri Dec 9 - TBA</p>

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](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

STUDENT EVALUATION

DESCRIPTION	WEIGHTING
Professionalism and Contributions	5

DESCRIPTION	WEIGHTING
Labs/Quizzes	10
Assignment 1	10
Assignment 2	10
Assignment 3	10
Practical Exam	10
Midterm	15
Written Exam	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](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

TEST AND EXAMINATION PROCEDURES

There are policies regarding written test and examination procedures including late arrivals and missed tests. Please see the Health and Human Services Student Handbook item 5.4 for Test and Examination Procedures at <http://camosun.ca/learn/school/health-human-services/student-info/index.html>

WRITTEN ASSIGNMENTS

Assignments are due before 2400 hours (midnight) on the assigned day unless otherwise specified. Assignments about patients, residents or clients must be completed using the individual's initials only. Unless otherwise directed by individual course outlines, assignments must be: word processed, double spaced, font meeting APA 7th edition guidelines, with a title page and a reference list. Students requiring an extension for the due date of an assignment must negotiate with the instructor, at least 24 hours before the due date. Assignments submitted late without an approved extension will result in a 5% deduction in mark for each day late.

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

Support Service	Website
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.