

COURSE SYLLABUS



COURSE TITLE:	MIDS 167 – Basics of Electrocardiography
CLASS SECTION:	BX02AB
TERM:	F2023
COURSE CREDITS:	3
DELIVERY METHOD(S):	Blended

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here. Learn more about Camosun's [Territorial Acknowledgement](#).

INSTRUCTOR DETAILS

NAME:	Jana Suraci
EMAIL:	SuraciJ@camosun.ca
OFFICE:	CHW 317
HOURS:	By appointment

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
EQUIVALENCIES:	N/A

COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

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.

- d) complete the required number of technically accurate electrocardiograms in accordance with British Columbia Society of Laboratory Science (BCSLS) eligibility requirements for clinical practicum participation.

BCSLS Competency Skills

1. Identify and describe the anatomy and the electrical conduction system of the heart. (BCSLS – Unit 4A: A)
2. Knowledge of patient symptomology, critical values and indications of cardiac events and appropriate responses. (BCSLS - CoPC3, Unit 4D: D)
3. Use cardiac testing procedures and technologies to assist in the assessment of normal and abnormal rhythms. (BCSLS – CoPC7, Unit 4D: D)
4. Knowledge of procedure for unusual patient circumstances, i.e., 15 Lead, dextrocardia, wheelchair or pediatric patients (BCSLS - Unit 4C: C)
5. Knowledge of maintenance and care of Cardiac equipment (BCSLS –CoPC3, Unit 4B: B)
6. Knowledge of the indicators, application, procedures and maintenance for both Holter and Ambulatory Blood Pressure Monitors. (BCSLS - Unit 4E: E)
7. Demonstrate the required number of technically accurate electrocardiograms in accordance with British Columbia Society of Laboratory Science (BCSLS) eligibility requirements for clinical practicum participation. (BCSLS – CoPC6, Unit 4C: C)

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Beasley, Brenda M., Understanding EKGs: A Practical Approach 5th Edition. ISBN 13:978-0-13-521341-4 ISBN 10: 0-13-521341-X

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	Topic	Assignments
Week 1 Sept 5–Sept 8	Ch. 1 The Anatomy of the Heart Structure	Colouring Page Heart diagram
Week 2 Sept 11-Sept 15	Ch. 2 Cardiovascular Physiology: Function	Quiz 1: Anatomy of the Heart
Week 3 Sept 18-Sept 22	Ch. 3 Basic Electrophysiology & Ch. 4 The Electrical Conduction System	Quiz 2: Cardiovascular Physiology
Week 4 Sept 25–Sept 29	Ch. 5 The Electrocardiogram	Quiz 3: Basic Electrophysiology and Electrical Conduction System
Week 5 Oct 2-Oct 6 No classes Oct 2	Ch. 6 Interpretation of ECG Strip	Quiz 4: The Electrocardiogram Assignment 1: Due

Week 6 Oct 9-Oct 13 No classes Oct 9	Ch. 7 Introducing the Sinus Rhythms	Quiz 5: Interpretation of ECG Strip
Week 7 Oct 16-Oct 20	Ch. 8 Introducing the Atrial Rhythms	Midterm Ch. 1-7
Week 8 Oct 23-Oct 27	Ch. 9 Introducing the Junctional Rhythms	Quiz 6: Atrial Rhythms
Week 9 Oct 30-Nov 3	Ch. 10 Introducing the Ventricular Rhythms	Quiz 7: Junctional Rhythms
Week 10 Nov 6-Nov 10	Ch. 13 Cardiac Emergencies	Quiz 8: Ventricular Rhythms
Week 11 Nov 13-Nov 17 No classes Nov 13	Ch. 11 The Heart Block Rhythms	Quiz 9: Cardiac Emergencies Quiz 10: Holter Monitors
Week 12 Nov 20-Nov 24	Ch. 12 Introducing Pacemaker Rhythms	Practical Exams
Week 13 Nov 27-Dec 1	Review	Practical Exams Assignment 2: Due
Week 14 Dec 4-Dec 8	Review	
Exam		

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
Assignment 1	15%
Assignment 2	15%
Quizzes	15%
Midterm	15%
Practical Exam	15%
Exam	25%
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](https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf) policy for more information.

<https://camosun.ca/sites/default/files/2021-05/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 camosun.ca/services.

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

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.

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

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:

<https://camosun.ca/services/academic-supports/accessible-learning>

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. Please visit <https://camosun.ca/sites/default/files/2021-07/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: <https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and camosun.ca/services/sexual-violence-support-and-education. 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 <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.