

# CLASS SYLLABUS



COURSE TITLE: MIDS 167 Basics of Electrocardiography  
CLASS SECTION: BX01A-F  
TERM: W2023  
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](#).

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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-faqs-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.

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*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

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NAME: Jana Suraci  
EMAIL: [SuraciJ@camosun.ca](mailto: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

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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 12-lead 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

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

## COURSE LEARNING OUTCOMES

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

- a) identify and explain the relationship of cardiac anatomy, physiology, and pathology to lead placement and recorded results.
- b) describe and demonstrate correct patient preparation, lead placement, equipment operation, calibration, and maintenance, used in non-invasive cardiac testing.
- c) 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.

## COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

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

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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

Aehlert, B. (2022) ECGs Made Easy 7th 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	<p><b>Online Lecture 11-12:20pm</b> via Zoom  <a href="https://camosun-ca.zoom.us/j/63190744908">https://camosun-ca.zoom.us/j/63190744908</a></p> <p><b>Wed January 11 Lecture:</b> Introduction and Course Overview  <b>Asynchronous lecture:</b>                      Watch ECG Lecture Cardiac Anatomy Part 1-3</p>	<p><b>Thurs Jan 12/Fri Jan 13 Labs</b>                      Leads and Placement Worksheet  <b>Homework:</b>                      1. Cardiac Colouring Worksheet and Cardiac Labeling Working sheet due by January 20<sup>th</sup> @ 11:59pm (completion mark)</p>
2	<p><b>Before Lecture:</b> Read Chapter 1 Anatomy and Physiology  <b>Wed Jan 18 Lecture:</b> Cardiac Anatomy and Physiology  <b>Asynchronous lecture:</b> Watch ECG Lecture Cardiac Anatomy Part 4 and 5  <b>Homework:</b>                      Assignment 1: Cardiac Physiology and Blood Flow due Feb 1<sup>st</sup> @ 11:59pm</p>	<p><b>Thurs Jan 19/Fri Jan 20 Labs</b>                      Leads and Placement Worksheet  <b>Homework:</b>                      1. Cardiac Colouring Worksheet and Cardiac Labeling Working sheet due by January 20<sup>th</sup> @ 11:59pm (completion mark)</p>
3	<p><b>Before Lecture:</b> Read Chapter 2 Basics of Electrophysiology  <b>Wed Jan 25 Lecture:</b> Basics of Electrophysiology  <b>Asynchronous Lecture:</b> Basics of Electrophysiology  <b>Homework:</b></p> <ol style="list-style-type: none"> <li>1. Assignment 1: Cardiac Physiology and Blood Flow due Feb 1<sup>st</sup> @ 11:59pm</li> <li>2. QUIZ: Ch. 2 due Jan 31<sup>st</sup> @11:59pm (Open book)</li> </ol>	<p><b>Thurs Jan 26/Fri Jan 27</b>  <b>Homework:</b> Leads and Placement Worksheet</p>
4	<p><b>Before lecture:</b> Read Chapter 3 Sinus Mechanisms  <b>Wed Feb 1 Lecture:</b> Interpretations of an ECG Tracing  <b>Asynchronous Lecture:</b> Sinus Mechanisms  <b>Homework:</b></p> <ol style="list-style-type: none"> <li>1. QUIZ: Ch. 3 due Feb 7<sup>th</sup> @11:59pm (Open book)</li> </ol>	<p><b>Thurs Feb 2/Fri Feb 3</b></p>
5	<p><b>Before lecture:</b> Read Chapter 4 Atrial Rhythms  <b>Wed Feb 8<sup>th</sup> Lecture:</b> Sinus and Atrial Rhythms  <b>Asynchronous Lecture:</b> Atrial Rhythms  <b>Homework:</b>                      Assignment 2 ECG Rhythms – Study Guide due Mar 19<sup>th</sup> @11:59pm</p>	<p><b>Thurs Feb 9/Fri Feb 10</b></p>
6	<p><b>Before lecture:</b> Study!  <b>Wed Feb 15 Lecture:</b> MIDTERM</p>	<p><b>Thurs Feb 16/Fri Feb 17</b></p>
7	<p><b>Reading Week (no classes)</b></p>	<p><b>Reading Week (no classes)</b></p>

8	<p><b>Before lecture:</b> Read Ch. 5 Intro to Junctional Rhythms</p> <p><b>Wed Mar 1 Lecture:</b> Intro to Junctional Rhythms</p> <p><b>Asynchronous Lecture:</b> Junctional Rhythms</p> <p><b>Homework:</b></p> <ol style="list-style-type: none"> <li>1. QUIZ: Atrial &amp; Junctional Rhythms due March 7<sup>th</sup> @ 11:59pm (Open book)</li> <li>2. Assignment 2 ECG Rhythms – Study Guide due Mar 19<sup>th</sup> @ 11:59pm</li> </ol>	Thurs Mar 2/Fri Mar 3
9	<p><b>Before lecture:</b> Read Ch. 6 Intro to Ventricular Rhythms</p> <p><b>Wed Mar 8 Lecture:</b> Intro to Ventricular Rhythms</p> <p><b>Asynchronous Lecture:</b> Intro to Ventricular Rhythms</p> <p><b>Homework:</b></p> <ol style="list-style-type: none"> <li>1. QUIZ: Ch. 6 due March 15<sup>th</sup> @ 11:59pm (Open book)</li> <li>2. Assignment 2 ECG Rhythms – Study Guide due Mar 19<sup>th</sup> @ 11:59pm</li> </ol>	Thurs Mar 9/Fri Mar 10
10	<p><b>Before lecture:</b> Read Ch. 7 AV &amp; BBB</p> <p><b>Wed Mar 15 Lecture:</b> AV and BBB</p> <p><b>Asynchronous Lecture:</b> AV and BBB</p> <p><b>Homework:</b></p> <ol style="list-style-type: none"> <li>1. QUIZ: Ch. 7 due Mar 22<sup>nd</sup>@ 11:59pm (Open book)</li> <li>2. Assignment 2 ECG Rhythms – Study Guide due Mar 19<sup>th</sup> @ 11:59pm</li> </ol>	Thurs Mar 16/Fri Mar 17 <b>Homework:</b> QUIZ: Holter due TBA <sup>th</sup> @ 11:59pm
11	<p><b>Before lecture:</b> Read Ch. 8 Pacemaker Rhythms</p> <p><b>Wed Mar 22 Lecture:</b> Pacemakers and ICDs</p> <p><b>Asynchronous Lecture:</b> Pacemakers and ICDs</p> <p><b>Homework:</b> Assignment 3 Patient Case Studies due Apr 6<sup>th</sup> @11:59pm</p>	Thurs Mar 23/Fri Mar 24
12	<p><b>Before lecture:</b> Read PDF</p> <p><b>Wed Mar 29 Lecture:</b> Cardiac Pathologies</p> <p><b>Asynchronous Lecture</b> Cardiac Pathologies</p> <p><b>Homework:</b> Assignment 3 Patient Case Studies due Apr 6<sup>th</sup> @11:59pm</p>	Thurs Mar 30/Fri Mar 31 Practical Exam
13	<p><b>Before lecture:</b> PDF</p> <p><b>Wed Apr 5 Lecture:</b> Cardiac Pathologies</p> <p><b>Asynchronous Lecture</b> Cardiac Pathologies</p> <p><b>Homework:</b> Assignment 3 Patient Case Studies due Apr 6<sup>th</sup> @11:59pm</p>	Good Friday No labs
14	<b>Wed Apr 12:</b> Review	Thurs Apr 13/Fri Apr 14

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>

## STUDENT EVALUATION

DESCRIPTION	WEIGHTING
Professionalism and Contributions	5
Labs/Quizzes	10
Assignment 1	10
Assignment 2	10
Assignment 3	10
Practical Exam	10
Midterm	15
Written Exam	30
<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](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

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### 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

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## 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>
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>

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 250-370-3841

### 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.