



Course Syllabus

Course title: Cardiac Sonography Competency

Class section: PRAC - 296 - BX01

Term: 2025W

Course credits: 6

Total hours: 272

Delivery method: Blended

Territorial Acknowledgement

Camosun College respectfully acknowledges that our campuses are situated on the territories of the Łək̓ʷəŋən (Songhees and Kosapsun) and W̱SÁNEĆ peoples. We honour their knowledge and welcome to all students who seek education here.

Instructor Details

Name: Kendal Adam

Email: AdamK@camosun.ca

Instructor Statement

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.

Instructor Office Hours

Office:

Hours:

Room #317

Hours: By appointment

Course Description

Course Description:

During this clinical practicum in Sonography, students enhance their practice capabilities in hospital or community imaging environments under the supervision of qualified workplace professionals. Integrating knowledge from all previous theory courses, laboratory, simulation, and applied learning experiences, students learn to demonstrate national, entry-to-practice capabilities in Cardiac scanning in a variety of practice situations. Using feedback received from their designated workplace mentors and Camosun instructors, students examine and analyze their progress to improve future practice. Students complete the Canadian Clinical Skill Assessment (CCSA) in Cardiac Sonography.

Pre or Co-requisites:

All of:

- COM in PRAC 290

Or one of:

- Current certification in Diagnostic Medical Sonography
- Diploma in Diagnostic Medical Sonography

Course Learning Outcomes / Objectives

Upon successful completion of this course, the learner will be able to

1. Demonstrate professionalism in a variety of settings by adhering to sonography best practices, workplace protocols and procedures, and all school policies and guidelines
2. Apply knowledge of Cardiac sonography competencies, procedures, human anatomy and physiology, pathology, professionalism, communication, and scientific principles to obtain optimal quality diagnostic images and generate accurate technical impressions in Cardiac Sonography
3. Use best practices for managing patient and client interactions in a competent, safe, and responsible manner, with cultural humility while observing legal and ethical workplace

standards

4. Communicate effectively with patients and clients, other members of the public, and all members of the health care team while acting within the role and scope of a Diagnostic Medical Sonographer
5. Recognize appropriate learning opportunities within the clinical practice setting to expand on and maintain clinical competence through reflective practice
6. Consolidate sufficient knowledge of competency requirements and examination blueprints to identify and self-assess readiness to successfully complete the Cardiac Sonography national certification examinations
7. Demonstrate entry-to-practice capabilities required by Sonography Canada by successfully completing the Canadian Clinical Skills Assessment (CCSA) for Cardiac Sonographers

Course Competencies

Sonography Canada Competencies Encountered:

6.1b Recognize hazardous conditions in the work area and respond.

6.1c Maintain awareness of fire and disaster plans.

6.1d Locate emergency equipment.

Appendix E Cardiac:

1 Abdominal situs

2 Cardiac position

3 Chest & thorax (adjacent, extra-cardiac)

5 Hepatic veins

6 Outflow tracts

7 Pulmonary veins

8 Wall layers (endo, myo, pericardium)

9 Wall segments

10 Arch & branches

- 11 Ascending Aorta
- 12 Descending Aorta
- 13 Root
- 14 Left Atrium
- 15 Right Atrium
- 16 Left Atrial Appendage
- 17 Right Atrial Appendage
- 18 Main pulmonary artery
- 19 Bifurcation
- 20 Atrial
- 21 Ventricular
- 22 Aortic Valve
- 23 Mitral Valve
- 24 Mitral (annulus)
- 25 Pulmonic Valve
- 26 Tricuspid Valve
- 27 Tricuspid annulus
- 28 Inferior Vena Cava
- 30 Left Ventricle
- 31 Right Ventricle

Course Schedule, Topics, and Associated Preparation / Activity

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

Week	Tuesday	Description	Learning Outcomes	Sonography Canada
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				Competencies
1	January 7	<p>Orientation</p> <ul style="list-style-type: none"> • Clinical Site Orientation Assignment <p>Locate Safety Equipment (fire extinguishers, exits, crash carts, Site Disaster Plan etc.)</p> <ul style="list-style-type: none"> • Complete Student Acknowledgement Form on Monday January 6th and submit to COMPTRACKER 		1. b, 6.1c, 6.1d
2	January 14	<ul style="list-style-type: none"> • Submit Portfolio Reflection to COMPTRACKER • Submit Formative Evaluation to COMPTRACKER 		5.4g
3	January 21	<ul style="list-style-type: none"> • Complete CCSA Goals Assignment in D2L 	1, 2, 3, 4, 5, 6, 7	Appendix A: 16, 17, 18, 19, 20, 21, 22, 23, 25, 26,
4	January 28	<ul style="list-style-type: none"> • 4.1 Submit Portfolio Reflection to COMPTRACKER • Submit Formative Evaluation to COMPTRACKER • Clinical Liaison Visit • Submit Clinical Liaison Visit Summary to COMPTRACKER 		27, 28, 29, 30, 32, 33, 34, 35, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 49,
5	February 4	5.1 CCSA Competencies		50, 52, 53, 54, 55,
6	February 11	<ul style="list-style-type: none"> • Submit Portfolio Reflection to COMPTRACKER • Submit Formative Evaluation to COMPTRACKER • CCSA Competencies 		56, 57, 58, 59, 60, 61, 62, 63, 64, 65,
7	February 18	7.1 CCSA Competencies		66, 67, 68, 69, 70,
	February 25	<ul style="list-style-type: none"> • Submit Portfolio Reflection to 		

8		<p>COMPTRACKER</p> <ul style="list-style-type: none"> • Submit Formative Evaluation to COMPTRACKER • CCSA Competencies • 8.3 Clinical Liaison Visit • 8.4 Submit Clinical Liaison Visit Summary to COMPTRACKER 	72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97
9	March 4	9.1 CCSA Competencies	
10	March 11	<ul style="list-style-type: none"> • Submit Portfolio Reflection to COMPTRACKER • Submit Formative Evaluation to COMPTRACKER <p>CCSA Competencies</p>	
11	March 18	11.1 CCSA Competencies	
12	March 25	<ul style="list-style-type: none"> • Submit Portfolio Reflection to COMPTRACKER • Submit Formative Evaluation to COMPTRACKER • CCSA Competencies • Clinical Liaison Visit • Submit Clinical Liaison Visit Summary to COMPTRACKER 	
13	April 1	13.1 CCSA Competencies	
14	April 8	<ul style="list-style-type: none"> • Submit Portfolio Reflection to COMPTRACKER • Submit Formative Evaluation to COMPTRACKER <p>CCSA Competencies</p>	
15	April 15	<ul style="list-style-type: none"> • CCSA Competencies • Submit Summative Evaluation to COMPTRACKER • Finalize CCSA Competencies 	

		<ul style="list-style-type: none"> • Hand in Clinical Binder, VIHA ID Badge, Proxy Card 		
16	April 22	<p>Extra Clinical Exposure/Remediation Weeks:</p> <p>Remediation Required If:</p> <ul style="list-style-type: none"> • More than 4 days absent from clinical accumulated • At the end of week 15, the minimum Portfolio requirements have not been met and/or CCSA's have not been completed • Not maintaining reasonable level of completion and/or progress 		

Selecting Cases for CCSA Assessment

Required Case Types	
Cardiac	5 cases, at least 3 of which must be abnormal (The abnormal cases must include at least 1 WMA and 1 hemodynamically significant valve disease)

NOTE: For all case types, an abnormal case can be used in place of a required normal case.

The following chart provides a list of common findings that will be not considered abnormal.

Exam Type	Common Findings Not Considered as Abnormal
Cardiac	<ul style="list-style-type: none"> • Trace (physiologic) valvular regurgitation • Sigmoid basal septum • Chiari network/Eustachian Valves • Apical trabeculation • Trace (physiologic) pericardial effusion • Mild (age-related) valvular sclerosis

Evaluation of Learning: Weighted

DESCRIPTION	WEIGHTING
Orientation Assignment	COM
CCSA Goals Assignment	COM
Reflections	COM
Formative & Summative Assessment Forms	COM
Clinical Liaison Site Visit Forms	COM
CCSA Competency Completion	COM
TOTAL:	COM

NOTE: Students must achieve at least a ("C+") or COM in all program courses.

Camosun's Grading Systems

<https://camosun.ca/registration-records/student-records/camosun-grading-systems>

Grade Reviews and Appeals

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.

<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

The Centre for Accessible Learning (CAL) is part of Camosun's Student Affairs unit. CAL coordinates academic accommodations and provides related programs and services to students with documented disabilities.

Students who require academic accommodations are expected to request and arrange accommodations through CAL in a timely fashion. While we understand that not all accommodation needs are known to students at the beginning of a course, accommodations cannot be provided unless the proper process is followed through CAL and an accommodation letter has been released to the instructor. Students are responsible for providing CAL with the proper documentation prior to the beginning of a course.

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>

Please consult the CAL webpage for more information:

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

Evaluation of Learning: Competency

COM	COMPLETE: The student has met the goals, criteria, or competencies established for this course, practicum, or field placement.
NC	NOT COMPLETE: The student has not met the goals, criteria, or competencies established for this course, practicum, or field placement

NOTE: The Minimum passing grade for this course is "COM".

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Please consult the CAL webpage for more information:

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Artificial Intelligence: A Guide for Students

Generative Artificial Intelligence (GenAI) is an evolving technology that brings potential benefits but also substantial risks. While GenAI tools have the ability to transform how we work and learn, it is essential for the college community to adapt to these changes in a thoughtful and secure way.

When using GenAI tools, students should ensure proper citation and attribution guidelines are followed. This includes acknowledging AI assistance in reports, presentations, or any external communications. Clear citation helps build trust, ensures ethical use, and reduces the risk of misinformation or copyright issues.

For citation support visit the college's citation style guide.

<https://camosun.libguides.com/cite>

Artificial Intelligence: A Guide for Students

Visit the following website to learn about AI use in academic settings.

<https://camosun.libguides.com/artificialintelligence/home>

Course Guidelines & Expectations

Students are expected to be on site 30 hours per week (7.5 hrs/day x 4 days). Monday is considered an academic day and students are to use this day to complete learning activities encountered in this and their other courses.

Weeks 1-15 are mandatory.

A base schedule with each student's specific shift rotation will be provided to the student via the site preceptor and/or supervisor. Students will notify their Clinical Liaison and Site if they will be absent. Instructions provided on D2L for each site.

Additional reading materials and assignment instructions are posted to the content on D2L. Students are expected to read through the materials posted to the course introduction/getting started module by the end of week 1 and refer back to this information as needed.

Students are expected to complete the Canadian Clinical Skills Assessments (CCSA) for the Cardiac Sonography Competency. Students who are unable to achieve the required number of unassisted competencies need to have a plan for completion in place with the Clinical Liaison and may not be eligible for full marks and will be unable to sit the Sonography Canada certification exams until such time as all required CCSA competencies are complete. Students whom have demonstrated non-professional or unsafe behaviours may also have marks deducted from this category and may be removed from the clinical site until such time as safety to practice can be reassessed by the Clinical

Liaison. Repeated professionalism or safety concerns may result in a student being assessed a zero (0) in the course.

Communications will be sent via the course News Feed on D2L. It is the student's responsibility to set up their notifications and/or check the course News Feed on a daily basis. Online discussion areas will be set up for questions and ongoing discussion topics.

Additional Information

***Do not book travel or flights until the final examination schedule has been published by the registrar.**

School or Departmental Information

Students are required to read and are accountable for the College policies (outlined below) and practicum guidelines as described in the School of Health and Human Services (HHS) and program handbooks.

[SONO Program Handbook](#)

Clinical and Practice Placements in HHS

<https://camosun.ca/programs-courses/school-health-and-human-services/hhs-programs/practicums>

School of Health and Human Services (HHS)

<https://camosun.ca/programs-courses/school-health-and-human-services/information-health-and-human-services-students-1#top>

HHS Program Handbooks

<https://camosun.ca/programs-courses/school-health-and-human-services/information-health-and-human-services-students-1#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.

College Policies

Academic Integrity

Students are expected to follow the college's [Academic Integrity policy](#), and be honest and ethical in all aspects of their studies. To help you understand these responsibilities review the online [Academic Integrity guide](#).

The college's [Academic Integrity policy and supporting documents](#) detail the process for addressing and resolving matters of academic misconduct.

Academic Accommodations for Students with Disabilities

If you have a documented disability and need accommodations contact the Centre for Accessible Learning (CAL). CAL will arrange the appropriate academic accommodations so you can participate in all academic activities. Visit the [CAL website](#) for more information

Academic Progress

The [Academic Progress policy](#) details how the college monitors students' academic progress and what steps are taken if a student is at risk of not meeting the college's academic progress standards.

Acceptable Technology Use

The [Acceptable Technology Use](#) policy outlines how students are expected to use college technology resources, this includes using your own devices on the college's network. The use of the college resources in a way that violates a person's right to study in an environment free of discrimination, harassment or sexual violation is prohibited.

Course Withdrawals Policy

For details about course withdrawal see the [Course Withdrawals policy](#). Be aware of the [deadlines for fees, course drop dates, and tuition refunds](#).

Grading Policy

To learn more about grading see the [Grading Policy](#).

Grade Review and Appeals

The process to request a review of grades is outlined in the [Grade Review and Appeals policy](#).

Medical / Compassionate Withdrawals

If you have experienced a serious health or personal issue, you may be eligible for a [medical/compassionate withdrawal](#). The [Medical / Compassionate Withdrawal Request form](#) outlines what is required.

Sexual Violence

If you have experienced sexual violence on or off campus, you can get support from the Office of Student Support. The Office of Student Support is a safe and private place to talk about what supports are available and your options for next steps. Visit the [sexual violence support and education site](#) to learn more or email oss@camosun.ca or phone: 250-370-3046 or 250-370-3841.

Student Misconduct (Non-Academic)

Camosun expects students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Review the [Student Misconduct Policy](#) to understand the college's expectations of conduct.

Looking for other policies? See [Camosun College Policies and Directives](#)

Services and Supports

Services are free and available to all students.

Academic Supports	Enrollment Supports
Centre for Accessible Learning	Academic Advising
English, Math and Science Help Centres	Financial Aid and Awards
Library	Registration

Writing Centre & Learning Skills	Tuition and Fees
Health and Wellness	Applied learning
Counseling	
Fitness and Recreation	Co-operative Education and Career Services
Office of Student Support	Makerspace

The [Centre for Indigenous Education Centre and Community Connections](#) provides cultural and academic supports for Indigenous students.

[Camosun International](#) provides supports to international students.

[The Ombudsperson](#) provides an impartial, independent service to ensure students are treated fairly. The service is a safe place for students to voice and clarify concerns and complaints.

If you have a mental health concern, contact Counselling. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

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 the course content or schedule. When changes are necessary the instructor will give clear and timely notice.