

# CLASS SYLLABUS



COURSE TITLE: MIDS 231: Intermediate Scanning Skills 3  
CLASS SECTION: BX01A-D  
TERM: S2023  
COURSE CREDITS: 3  
DELIVERY METHOD(S): Blended Learning

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

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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: Kendal Adam & Stephan Tuomi  
EMAIL: [AdamK@camosun.ca](mailto:AdamK@camosun.ca) | [Tuomis@camosun.ca](mailto:Tuomis@camosun.ca)  
OFFICE: Click or tap here to enter text.  
HOURS: Click or tap here to enter text.

*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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Students demonstrate enhanced workplace and scanning skills by completing technically accurate routine ultrasound examinations under direct supervision. Students focus on learning to produce accurate technical documentation of live anatomy under outpatient clinic conditions. Students use critical thinking and problem solving to interpret and integrate relevant, available diagnostic data required to produce quality ultrasound examinations.

PREREQUISITE(S): C+ in both MIDS 181 and MIDS 199  
CO-REQUISITE(S): n/a  
PRE/CO-REQUISITE(S): C+ in MIDS 227

## COURSE DELIVERY

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ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture			
Seminar			
Lab / Collaborative Learning	8	11	
Supervised Field Practice			
Workplace Integrated Learning			
Online			
	TOTAL HOURS		<b>88</b>

## COURSE LEARNING OUTCOMES

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

- a) demonstrate ability to interpret requisitions, assess patient capabilities, and evaluate relevant information influencing selection of scanning protocols in outpatient settings by obtaining diagnostically acceptable studies under direct supervision.
- b) demonstrate the ability to evaluate exams for completeness, technical accuracy, and image quality by submitting diagnostically acceptable studies for review under routine outpatient clinic conditions.
- c) demonstrate the ability to create accurate technical reports and provide complete oral summaries of live examinations performed using outpatient clinic workflow and conditions.
- d) use knowledge of anatomy, pathology, scientific principles, patient condition, communication skills, and professional behaviours to formulate impressions based on live studies encountered in outpatient clinic settings.
- e) produce all diagnostic quality images required for complete ultrasound examinations within the recommended Sonography Canada guidelines for scheduling and time allotments while under outpatient clinic conditions.

## COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

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

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### Sonography Canada Competencies for: Intermediate Scanning Skills 3

- 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 C:

- 4 Scrotum
- 5 Lymph nodes
- 6 Popliteal fossa
- 10 Thyroid

Appendix D:

- 14 Iliac veins
- 15 Common femoral vein
- 16 Femoral vein
- 17 Popliteal vein

- 18 Sapheno-Femoral Junction
- 19 Sapheno-Popliteal Junction

Appendix F:

- 1 Aorta
- 2 Celiac trunk
- 3 Hepatic artery
- 4 Superior mesenteric artery
- 5 Superior mesenteric vein
- 6 Inferior mesenteric artery
- 7 Inferior mesenteric vein
- 8 Renal artery
- 9 Renal veins
- 10 Hepatic veins
- 11 Portal veins
- 12 Splenic artery
- 13 Splenic vein
- 14 Inferior vena cava
- 15 Common carotid artery
- 16 Internal carotid artery
- 17 External carotid artery
- 18 Vertebral artery
- 19 Subclavian artery
- 20 Innominate (brachiocephalic) artery
- 22 Innominate (brachiocephalic) artery
- 23 Subclavian artery
- 24 Axillary artery
- 25 Brachial artery
- 26 Forearm arteries
- 27 Iliac arteries
- 28 Common femoral artery
- 29 Femoral artery
- 30 Popliteal artery
- 31 Calf arteries
- 32 Jugular vein
- 33 Innominate vein
- 34 Subclavian vein
- 35 Axillary vein
- 36 Brachial vein
- 37 Forearm veins
- 38 Basilic vein
- 39 Cephalic vein
- 40 Iliac veins
- 41 Common femoral vein
- 42 Femoral vein
- 43 Popliteal vein
- 44 Calf veins
- 45 Saphenous veins
- 46 Grafts and stents

Previously Assessed Sonography Canada Competencies for Intermediate Scanning Skills 181 may be encountered in this course

Appendix A:

16	2nd, 3rd	Abdominal circumference
17	2nd, 3rd	Biparietal diameter
18	2nd, 3rd	Femur length
19	2nd, 3rd	Head circumference
20	2nd, 3rd	Anterior horn lateral ventricles
21	2nd, 3rd	Atria of lateral ventricles
22	2nd, 3rd	Cavum septi pellucidi
23	2nd, 3rd	Cerebellum
25	2nd, 3rd	Choroid plexus
26	2nd, 3rd	Cisterna magna
27	2nd, 3rd	Falx cerebri
28	2nd, 3rd	Skull
29	2nd, 3rd	Thalamus
30	2nd, 3rd	Third ventricle
32	2nd, 3rd	Cervical spine
33	2nd, 3rd	Lumbo-sacral spine
34	2nd, 3rd	Thoracic spine
35	2nd, 3rd	Facial profile
37	2nd, 3rd	Mouth / lips
38	1st, 2nd, 3rd	Nasal bones
39	2nd, 3rd	Orbits
41	2nd, 3rd	Nuchal fold
42	2nd, 3rd	Diaphragm
43	2nd, 3rd	Lungs
44	2nd, 3rd	Thoracic shape
45	1st, 2nd, 3rd	Fetal heart rate
46	2nd, 3rd	Situs
47	2nd, 3rd	Size
48	2nd, 3rd	Axis
49	2nd, 3rd	4 Chamber fetal heart
50	2nd, 3rd	Aortic arch
52	2nd, 3rd	Outflow tracts
53	2nd, 3rd	Three vessel view
54	2nd, 3rd	Adrenals
55	2nd, 3rd	Aorta
56	2nd, 3rd	Bowel
57	2nd, 3rd	Gallbladder
58	2nd, 3rd	Kidneys
59	2nd, 3rd	Liver
60	2nd, 3rd	Renal pelvis
61	2nd, 3rd	Spleen
62	1st, 2nd, 3rd	Stomach
63	1st, 2nd, 3rd	Umbilical cord
64	2nd, 3rd	Fetal insertion
65	2nd, 3rd	Placental insertion
66	2nd, 3rd	Vessels
67	1st, 2nd, 3rd	Urinary bladder
68	2nd, 3rd	Genitalia
69	2nd, 3rd	Contour
70	2nd, 3rd	Thickness

72	2nd, 3rd	Feet
73	2nd, 3rd	Femora
74	2nd, 3rd	Fibula
75	2nd, 3rd	Hands
76	2nd, 3rd	Humeri
77	2nd, 3rd	Radius
78	2nd, 3rd	Ribs
79	2nd, 3rd	Tibia
80	2nd, 3rd	Ulna
81	1st, 2nd, 3rd	Placental location / development
82	2nd, 3rd	Grading
83	2nd, 3rd	Relation to internal os
84	2nd, 3rd	Thickness
85	2nd, 3rd	Amniotic Fluid -Single Pocket Evaluation
86	2nd, 3rd	Amniotic fluid index
87	1st, 2nd, 3rd	Chorionicity
88	2nd, 3rd	Cervical length
89	2nd, 3rd	Fetal lie
90	2nd, 3rd	Fetal presentation
91	1st, 2nd, 3rd	Number of Fetuses
93	3rd	Cord Doppler
94	3rd	Amniotic fluid
95	3rd	Breathing
96	3rd	Fetal movement
97	3 <sup>rd</sup>	Fetal tone

#### Appendix E:

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
12	Descending
13	Root
14	Left
15	Right
16	Left Atrial Appendage
18	Main pulmonary artery
19	Bifurcation
20	Atrial
21	Ventricular
22	Aortic
23	Mitral
24	Mitral (annulus)
25	Pulmonic
26	Tricuspid
27	Tricuspid annulus

- 28 Inferior
- 30 Left
- 31 Right

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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**Required:**

COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

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

**Intermediate Scanning Skills Lab 3 commences on May 23, 2023 and finishes on August 18, 2023**

Students are expected to be on site 8 hours per week. Weeks 1-14 are mandatory. Week 15 & 16 are encouraged to be attended upon the student’s request to obtain more clinical experience. Week 15 & 16 may also become required if a plan for remediation is put in place and/or attendance/portfolio requirements have not been met by the end of week 14.

A base schedule with each student’s specific shift rotation is posted to D2L and available in the Medical Imaging Department. Any changes to the schedule must be approved by the Clinical Site Preceptor and communicated to the Clinical Liaison.

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 all of Appendix C and D competencies and most Appendix F and E competencies—amount to be determined by the Clinical Liaison in conjunction with MIDS 237 and MIDS 247 Instructor. Competencies learned towards the end of MIDS 237 & MIDS 247 may be carried over to next semester and be completed in MIDS 281 at the discretion of your Clinical Liaison. Students who complete the expected number of unassisted competencies, as determined by the Clinical Liaison, will be eligible for full marks in this category. 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. 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.

Week	Date	Description	Learning Outcomes	Sonography Canada Competencies
1	Week of May 01	<b>No Clinical Skills Labs</b>		
2	Week of May 08			
3	Week of May 15			

4	Week of May 22	Submit Reflection to D2L		6.1b, 6.1c, 6.1d	
5	Week of May 29	Submit Reflection to D2L CL Meeting – Image Review Feedback			
6	Week of June 5	Submit Reflection to D2L			
7	Week of June 12	Submit Reflection to D2L CL Meeting – Image Review Feedback Submit Formative Evaluation			5.4g
8	Week of June 19	Submit Reflection to D2L			Appendix C: 4, 5, 6, 10
9	Week of June 26	Submit Reflection to D2L CL Meeting – Image Review Feedback Submit Formative Evaluation			Appendix D: 14, 15, 16, 17, 18, 19, 20
10	Week of July 3	Submit Reflection to D2L			Appendix E: 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31
11	Week of July 10	Submit Reflection to D2L CL Meeting – Image Review Feedback Submit Formative Evaluation			
12	Week of July 17	Submit Reflection to D2L			
13	Week of July 24	Image Reviews Due			
14	Week of July 31	Receive Summative Evaluation from CL			
15 & 16	Week of August 7 & August 14	Extra Clinical Exposure/Remediation Weeks: Remediation <i>Required</i> If: I. More than 2 days absent from clinical accumulated II. At the end of week 14, the requirements have not been met III. Not maintaining reasonable level of completion/progress			Appendix F: 1, 2, 3, 4, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46

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
Weekly Self Reflections	20%
Image Reviews	40%
Clinical Checklist Completion	40%
<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](#) policy for more information.

Note: Students must achieve a score of **65% or higher** in the course to use MIDS 231 as a pre or co requisite for future courses

## COURSE GUIDELINES & EXPECTATIONS

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TBD by Instructor

## SCHOOL OR DEPARTMENTAL INFORMATION

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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 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

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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](http://camosun.ca/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.