

CLASS SYLLABUS



COURSE TITLE: MIDS 181 – Intermediate Scanning Skills 2
CLASS SECTION: X01-04
TERM: W2023
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: Eleze Munro
EMAIL: munroe@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

Students integrate complex workflow behaviour, initiate appropriate ultrasound examinations, and obtain diagnostic images under direct supervision. Students focus on demonstrating enhanced workplace and scanning skills by producing diagnostic quality images of live anatomy under outpatient clinic conditions. Students use critical thinking and problem solving to adapt patient positioning and techniques as required to produce quality images during various elements of routine scanning for a variety of studies.

PREREQUISITE(S): **All of:** C+ in MIDS 151; C+ in MIDS 167
CO-REQUISITE(S): N/A
PRE/CO-REQUISITE(S): N/A

COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture			
Seminar			

Lab / Collaborative Learning	8	11	
Supervised Field Practice			
Workplace Integrated Learning			
Online			
	TOTAL HOURS		88

COURSE LEARNING OUTCOMES

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

- a) Demonstrate developing ability to identify the relevant information that influences exam and protocol adaptations in outpatient settings by obtaining diagnostically acceptable images under direct supervision.
- b) Demonstrate the ability to evaluate images for orientation, identification, and labeling by submitting diagnostically acceptable images for review under routine outpatient clinic conditions.
- c) Demonstrate the ability to accurately record patient position, obtain measurements, and perform calculations during routine examinations using outpatient clinic workflow and conditions.
- d) Use knowledge of anatomy, scientific principles, patient condition, communication skills, professional behaviours, and cultural awareness to differentiate between normal variants, artifacts, and pathology commonly encountered in outpatient clinic settings.
- e) Perform required elements and produce diagnostic quality images for various 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”)

Sonography Canada Competencies for: Intermediate Sonography Scanning Skills 2

- 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 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 rd	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

Previously Assessed Sonography Canada Competencies for Intermediate Scanning Skills*

*may be encountered in this course

Appendix A:

1	GYN, 1st, 2nd, 3rd	Adnexa
3	GYN, 1st, 2nd, 3rd	Cervix
4	GYN, 1st	Cul-de-sacs
5	GYN, 1st	Endometrium
6	GYN, 1st	Fallopian tubes
8	GYN, 1st, 2nd, 3rd	Ovaries
9	GYN, 1st, 2nd, 3rd	Urinary bladder
10	GYN, 1st, 2nd, 3rd	Kidneys

11	GYN, 1st	Uterus
12	GYN, 1st	Vagina
14	1st	Gestational sac
15	1st	Fetal pole
31	1st	Gross spinal development
38	1st, 2nd, 3rd	Nasal bones
40	1st	Nuchal translucency
45	1st, 2nd, 3rd	Fetal heart rate
62	1st, 2nd, 3rd	Stomach
63	1st, 2nd, 3rd	Umbilical cord
67	1st, 2nd, 3rd	Urinary bladder
71	1st	Gross limb development
81	1st, 2nd, 3rd	Placental location / development
92	1st	Yolk sac

Appendix B:

1	Abdominal aorta
4	Celiac trunk
6	Common iliac arteries
8	Inferior vena cava
9	Liver
10	Pancreas
11	Peritoneal, retroperitoneal cavities / spaces
12	Spleen
13	Splenic vein
14	Superior mesenteric artery
15	Gallbladder
16	Common hepatic duct
17	Common bile duct
19	Intrahepatic ducts
24	Kidneys
27	Ureters
28	Urinary bladder
29	Prostate
30	Seminal vesicles
31	Hepatic veins
32	Hepatic artery
33	Portal veins

Appendix C:

4	Scrotum
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REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Required Documents

Student Clinical Pocket Book (Provided)

Student Portfolio (Provided)

Online Course Content

Desire-to-Learn (D2L) contains the remainder of the instructional materials for this course. Students are expected to familiarize themselves with the online learning environment and access these materials on an ongoing basis throughout the course.

External Resources

Additional materials include Health Authority/Departmental policies and procedures pertaining to each clinical placement site. The Camosun Clinical Liaison and or site workplace Clinical Preceptor may assign materials to read/orientation activities to complete in preparation for working in Medical Imaging that are only available to students placed at their location.

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.

Intermediate Scanning Skills Lab 2 commences on January 30, 2023 and finishes on April 14, 2023

Weeks 1-3 are optional. There are four practice scanning sessions scheduled on January 18, 20, 25 and 27 from 12:30-2:30 pm. Although optional, students are encouraged to attend these lab sessions to practice scanning before the clinical skills labs begin.

Weeks 4-14 are mandatory. Students are expected to be on site 8 hours per week. 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.

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 *most* Appendix A-E competencies —amount to be determined by the Clinical Liaison in conjunction with the instructors for MIDS 187, MIDS 197 and MIDS 199. Competencies learned towards the end of these courses may be carried over to next semester and be completed in MIDS 231 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	January 9	None		
2	January 16	Practice Scanning at Camosun SONO Labs <ul style="list-style-type: none"> Jan 18 (Wed) – 12:30-2:30 pm Jan 20 (Fri) – 12:30-2:30 pm 		
3	January 23	Practice Scanning at Camosun SONO Labs <ul style="list-style-type: none"> Jan 25 (Wed) – 12:30-2:30 pm Jan 27 (Fri) – 12:30-2:30 pm 		
4	January 30	First week of clinical skills labs.		
5	February 6	5.1 Submit Pocketbook Reflection 1 5.2 Submit Technologist Feedback 1		
6	February 13	1.1 Clinical Site Orientation <ul style="list-style-type: none"> Locate Safety Equipment (fire extinguishers, exits, crash carts, Site Disaster Plan etc.) Department Tour Complete Orientation Quiz		6.1b, 6.1c, 6.1d 5.4g
7	February 20	7.1 Submit Pocketbook Reflection 2 7.2 Submit Technologist Feedback 2		<i>Appendix A:</i> 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 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
8	February 27	8.1 Submit Formative Evaluation 1 (CL)		
9	March 6	9.1 Submit Pocketbook Reflection 3 9.2 Submit Technologist Feedback 3		
10	March 13	10.1 Submit Formative Evaluation 2 (CL)		
11	March 20	11.1 Submit Pocketbook Reflection 4 11.2 Submit Technologist Feedback 4	a, b, c, d	
12	March 27	12.1 Submit Formative Evaluation 3 (CL)		
13	April 3	13.1 Submit Pocketbook Reflection 5 13.2 Submit Technologist Feedback 5		
14	April 10	14.1 Image Reviews Due 14.2 Submit Summative Evaluation (CL)		
15	April 17	Extra Clinical Exposure/Remediation Weeks:		<i>Appendix E:</i> 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
16	April 24	Remediation Required If: <ol style="list-style-type: none"> I. More than 2 days absent from clinical accumulated II. At the end of week 14, the minimum pocketbook requirements have not been met III. Not maintaining reasonable level of completion and/or progress 		

STUDENT EVALUATION

DESCRIPTION	WEIGHTING
Orientation Quiz	9%
Professionalism & Safety	6%
Pocketbook Reflections (5 @ 2% each)	10%
Technologist Feedback Forms (5 @ 1% each)	5%
Image Reviews	20%
Unassisted Clinical Competency Completion	50%
	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](#) policy for more information.

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

Note: Students must achieve a score of 65% or higher in the course to use MIDS 181 as a pre or co requisite for future courses.

All assignments are to be completed and submitted by the due date. Assignments that are not submitted by the due date will receive a grade of zero (0) and the assignment will not be marked.

Note: this also includes the submission of any documents requiring submission relating to skills assessments.

Extensions to assignment due dates may be granted on a case-by-case basis for significant, or unforeseen circumstances. Extensions will only be considered if adequate notice is received *prior* to the due date.

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 can be reviewed on the [CAL exams page](#).

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

COURSE GUIDELINES & EXPECTATIONS

TBD by instructor

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

Support Service	Website
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
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.