



Course Syllabus

Course title: Intermediate Sonography Scanning Skills 2

Class section: MIDS - 181 - BX04

Term: 2025W

Course credits: 3

Total hours: 90

Delivery method: Blended

Territorial Acknowledgement

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

Instructor Details

Name: Eleze Munro

Email: MunroE@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 CHW Appointment hours available upon request.

Course Description

Course 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.

Prerequisites:

All of:

- C+ in MIDS 151
- C+ in MIDS 167

Course Learning Outcomes / Objectives

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

1. 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
2. Demonstrate the ability to evaluate images for orientation, identification, and labeling by submitting diagnostically acceptable images for review under routine outpatient clinic conditions
3. Demonstrate the ability to accurately record patient position, obtain measurements, and perform calculations during routine examinations using outpatient clinic workflow and conditions
4. 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

5. 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 Competencies

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 3rd 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

Course Materials - Required

Access to CompTracker online platform, where the Student Portfolio is located. Student Orientation to this platform will take place on Thursday, January 23, 2025 at 2:00 pm.

Access to Camosun's D2L page for MIDS 181 W2025.

Course Delivery Hours

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
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ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lab / Collaborative Learning	8	11	88
		TOTAL HOURS:	88

**** Please note that Camosun is standardized on a 15-week semester which, where applicable, includes a final evaluation week. When an evaluation week is not required this may create a discrepancies in total hours.**

Course Schedule, Topics, and Associated Preparation / Activity

Intermediate Scanning Skills Lab 2 commences on January 28, 2025 and finishes on April 11, 2025.

No clinical rotations occur in weeks 1-3. Student orientation and other activities that are scheduled during the first 3 weeks of this course are mandatory. Students are encouraged to begin practice scanning of all learning protocols before clinical rotations begin on Week 4.

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 behaviors 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.

Image Reviews: Students will be required to meet with their clinical liaison periodically throughout the term to randomly review images and discuss interesting cases. The clinical liaison will coordinate times for these reviews to take place. Students will be assessed on professionalism, receptiveness to constructive feedback and general participation in the image review process. Failure to actively participate in image reviews and/or demonstration of non-professional behaviors may result in students not achieving a full mark for this section. Repeated participation or professionalism concerns may result in a student being assessed a zero (0) in this course. The schedule for these meetings will be determined prior to Week 4.

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.

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

Week	Date	Description	Learning Outcomes	Sono Canada Comps
Week 1	Jan 6-10, 2025	None.	n/a	n/a
Week 2	Jan 13-17, 2025	None.	n/a	n/a
Week 3	Jan 20-24, 2025	Thursday, Jan 23, 2025 CompTracker and MIDS 181 Orientation (2:00-4:00 pm). Friday, Jan 24, 2025 Kinex (1:00-3:00 pm).	n/a	n/a
Week 4	Jan 27-31, 2025	First Week of Clinical. Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 1.	1, 2, 3, 4, 5	6.1b, 6.1c, 6.1d 5.4g Appendix A: 16, 17, 18, 19, 20, 21, 22, 23, 25, 26,

Week	Date	Description	Learning Outcomes	Sono Canada Comps
Week 5	Feb 3-7, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 2.		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
Week 6	Feb 10-14, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 3.		
Week 7	Feb 17-21, 2025	Reading Break (*No break for MIDS 181, clinical still scheduled during this time). Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 4.		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
Week 8	Feb 24-28, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 5.		

Week	Date	Description	Learning Outcomes	Sono Canada Comps
Week 9	Mar 3-7, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 6.		
Week 10	Mar 10-14, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 7.		
Week 11	Mar 17-21, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 8.		
Week 12	Mar 24-28, 2025	Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 9.		
Week 13	Mar 31-Apr 4, 2025	Friday, Apr 4, 2025 Kinex (1:00-2:30 pm). Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 10.		

Week	Date	Description	Learning Outcomes	Sono Canada Comps
Week 14	Apr 7-11, 2025	Last Week of Clinical. Each student attends Campus US for 8 hours per week, from weeks 4-14. Self Reflection 11.		
Week 15	Apr 14-18, 2025	Possible Remediation		
Week 16	Apr 21-25, 2025	Possible Remediation		

Evaluation of Learning: Weighted

DESCRIPTION	WEIGHTING
Clinical Liaison Meeting / Image Reviews	30%
Unassisted Clinical Competency Completion	30%
Kinex Participation	10%
Self Reflections (x11)	10%
Formative Assessments	10%
Summative Assessment	10%
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.

<https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf>

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> Grade Review and Appeals Grade Review and Appeals

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 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.

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 Centre for Accessible Learning English, Math and Science Help Centres Library Writing Centre & Learning Skills	Enrollment Supports Academic Advising Financial Aid and Awards Registration Tuition and Fees
Health and Wellness Counseling Fitness and Recreation Office of Student Support	Applied learning Co-operative Education and Career Services 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.