

CLASS SYLLABUS



COURSE TITLE: MIDS 127- Abdominal Sonography Procedures & Scanning Basics

CLASS SECTION: X01

TERM: S2022

COURSE CREDITS: 3

DELIVERY METHOD(S): Synchronous, 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](#).

<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: Bridget Mavity

EMAIL: MavityB@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 are introduced to the basic clinical applications of sonography as a diagnostic investigation tool. Students review anatomic relationships in the abdomen while learning to recognize the normal and abnormal sonographic appearances of the peritoneal and retroperitoneal cavities, abdominal vasculature, liver, biliary system, pancreas, urinary and adrenal systems, spleen and gastrointestinal system. Students focus on learning the basic components of ultrasound procedures and abdominal protocols.

PREREQUISITE(S): **ENGLISH:** One of: B in English 12; B in English First Peoples 12; B in ENGL 091 and ENGL 093; B in ENGL 092 and ENGL 094; B in ENGL 103 and ENGL 104; B in ENGL 142; B in ELD 092 and ELD 094; B in ELD 097; B in ELD 103 and ELD 104

BIOLOGY: One of: B in Biology 12; B in BIOL 090; B in BIOL 103; B in BIOL 143; B in BIOL 150; B in BIOL 152 and BIOL 153; B in PNUR 101.

CO-REQUISITE(S): N/A

COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	4	14	
Seminar			
Lab / Collaborative Learning			
Supervised Field Practice			
Workplace Integrated Learning			
Online			
TOTAL HOURS			

COURSE LEARNING OUTCOMES

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

- a) explain the history and foundations of clinical sonography.
- b) describe the clinical applications for sonographic investigations in diagnostic medicine.
- c) describe proper ergonomics and safe practices designed to reduce the risk of work-related injuries and identify the most common practice limiting conditions and their causes experienced by sonographers.
- d) explain how the normal and abnormal sonographic appearance of the peritoneal and retroperitoneal cavities, abdominal vasculature, liver, biliary system, pancreas, urinary and adrenal systems, spleen and gastrointestinal system are identified and differentiated across gender, age, and habitus.
- e) define and apply the components of a diagnostic examination to abdominal sonography.
- f) discuss the implications of varied patient health conditions (physical, emotional, etc.) on routine examinations of the body and the necessity for Diagnostic Sonographers to respond appropriately.

COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

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

Sonography Canada Competencies:

Competencies Area:	Competencies:
Area 1:	1.1k - Use medical terminology and standard abbreviations in oral communication. 1.2e - Write medical terminology and standard abbreviations.
Area 5:	5.2a -Correlate results from laboratory tests, aspirations and biopsies. 5.2b -Correlate results from diagnostic imaging (radiography, computerized tomography, nuclear medicine and magnetic resonance studies).
Appendix B: Abdomen	1 - Abdominal aorta 3 - Adrenal glands 17 - Common bile duct 18 - Cystic duct

4 - Celiac trunk	19 - Intrahepatic ducts
6 - Common iliac arteries	20 - Appendix
8 - Inferior vena cava	21 - Small bowel
9 - Liver	22 - Large bowel
10 - Pancreas	23 - Stomach
11 - Peritoneal, retroperitoneal cavities / spaces	24 - Kidneys
12 - Spleen	27 - Ureters
13 - Splenic vein	28 - Urinary bladder
14 - Superior mesenteric artery	
15 - Gallbladder	
16 - Common hepatic duct	

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Kawamura, D. M., & Nolan, T. D. (2018). Abdomen and superficial structures (4th ed.). Philadelphia, PA: LWW.
 Kawamura, D. M., & Nolan, T. D. (2018). Workbook for diagnostic medical sonography: a guide to clinical practice, abdomen and superficial structures (4th ed.). Philadelphia, PA: LWW.

STUDENT EVALUATION

DESCRIPTION	WEIGHTING
Quizzes (10 quizzes at 2% each)	20%
Workbook Assignments (11 assignments at 2% each)	22%
Midterm	25%
Cumulative Final Exam	33%
	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.

Students must achieve a minimum of 65% for their final grade to pass the course and to use this course as a pre or co-requisite.

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.

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	DATE RANGE	LECTURE TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
1	Mon. May 02, 2022	<ul style="list-style-type: none"> • Introduction to course • Review course outline • History of ultrasound • Clinical uses of ultrasound • Role of the Sonographer • Components of an ultrasound examination • Understanding basic ultrasound imaging and principles • Ultrasound terminology and basics 	Chapter 1	a, b, e, f	1.1k, 1.2e Area 5: 5.2a, 5.2b
	Wed. May 04, 2022	<ul style="list-style-type: none"> • Ergonomics for Sonography 		c	
2	Mon. May 09, 2022	<ul style="list-style-type: none"> • Normal Anatomy of the Abdominal Vasculature (AO, CT, CIA, IVC, SV, SMA) 	Chapter 4	d	Appendix B: 1,4, 6, 8, 13, 14
	Wed. May 11, 2022	<ul style="list-style-type: none"> • Abnormal Anatomy of the Abdominal Vasculature 			
3	Mon. May 16, 2022	<ul style="list-style-type: none"> • Quiz #1: Introduction & Vasculature • Workbook Assignment #1 Due @08:00AM • Normal Anatomy of the Liver 	Chapter 5	d	Appendix B: 9, 19
	Wed. May 18, 2022	<ul style="list-style-type: none"> • Normal & Abnormal Anatomy of the Liver 			
4	HOLIDAY				
	Wed. May 25, 2022	<ul style="list-style-type: none"> • Abnormal Anatomy of the Liver 	Chapter 5	d	Appendix B: 9, 19
5	Mon. May 30, 2022	<ul style="list-style-type: none"> • Quiz #2: Liver • Workbook Assignment #2 Due @08:00AM • Normal Anatomy of the Gallbladder and Biliary System 	Chapter 6	d	Appendix B: 15, 16, 17, 18, 19
	Wed. June 01, 2022	<ul style="list-style-type: none"> • Abnormal Anatomy of the Gallbladder and Biliary System 	Chapter 6	d	Appendix B: 15, 16, 17, 18, 19
6	Mon. June 06, 2022	<ul style="list-style-type: none"> • Quiz #3: Biliary System • Workbook Assignment #3 Due @08:00AM • Normal and Abnormal Anatomy of the Pancreas 	Chapter 7	d	Appendix B: 10, 13
	Wed. June 08, 2022	<ul style="list-style-type: none"> • Normal and Abnormal Anatomy of the Spleen 	Chapter 8	d	Appendix B: 12, 13
7	Mon. June 13, 2022	<ul style="list-style-type: none"> • Quiz #4: Pancreas & Spleen • Workbook Assignment #4 Due @08:00AM • Pediatric Upper Abdomen 	Chapter 19	d	Appendix B: 1, 3, 8, 9, 10, 12, 15, 16, 17, 17, 19
	Wed. June 15, 2022	<ul style="list-style-type: none"> • Pediatric Upper Abdomen 			

WEEK	DATE RANGE	LECTURE TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
8	Mon. June 20, 2022	<ul style="list-style-type: none"> • Quiz #5: Pediatric Upper Abdomen • Workbook Assignment #5 Due @08:00AM <p style="text-align: center;">Midterm Review Session</p>		a-f	Appendix B: 1, 3, 4, 6, 8, 9, 10, 12-19
	Wed. June 22, 2022	Midterm		a-f	1.2e, 5.2a Appendix B: 1, 3, 4, 6, 8, 9, 10, 12-19
9	Mon. June 27, 2022	<ul style="list-style-type: none"> • Normal and Abnormal Anatomy of the Upper Urinary System 	Chapter 10	d	Appendix B: 24, 27
	Wed. June 29, 2022				
10	Mon. July 04, 2022	<ul style="list-style-type: none"> • Quiz #6: Upper Urinary System • Workbook Assignment #6 Due @08:00AM • Normal and Abnormal Anatomy of the Lower Urinary System 	Chapter 11	d	Appendix B: 27, 28
	Wed. July 06, 2022	<ul style="list-style-type: none"> • Normal and Abnormal Anatomy of the Adrenal Glands 	Chapter 13	d	Appendix B: 3
11	Mon. July 11, 2022	<ul style="list-style-type: none"> • Quiz #7: Lower Urinary System & Adrenal Glands • Workbook Assignment #7 Due @08:00AM • Pediatric Urinary System and Adrenals 	Chapter 20	d	Appendix B: 3, 24, 27, 28
	Wed. July 13, 2022	<ul style="list-style-type: none"> • Quiz #8: Pediatric Urinary System & Adrenal Glands • Workbook Assignment #8 Due @08:00AM • Normal and Abnormal Anatomy of the Gastrointestinal Tract (Adult & Pediatric) 	Chapter 9	d	Appendix B: 20, 21, 22, 23
12	Mon. July 18, 2022	<ul style="list-style-type: none"> • Normal and Abnormal Anatomy of the Gastrointestinal Tract (Adult & Pediatric) 	Chapter 9	d	Appendix B: 20, 21, 22, 23
	Wed. July 20, 2022				
13	Mon, July 25, 2022	<ul style="list-style-type: none"> • Quiz #9: GIT • Workbook Assignment #9 Due @08:00AM • Normal and Abnormal Anatomy of the Retroperitoneum • Normal and Abnormal Anatomy of the Peritoneal Cavity 	Chapter 14 Chapter 3	d	Appendix B: 11
	Wed. July 27, 2022	<ul style="list-style-type: none"> • Quiz #10: Retroperitoneum & Peritoneal Cavity • Workbook Assignment #10 Due @08:00AM • Evaluation of Transplanted Organs • Point of Care (POC) Ultrasound • Foreign Bodies 	Chapters 24, 25, 26	d	

WEEK	DATE RANGE	LECTURE TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
	Fri. July 29, 2022	• Workbook Assignment #11 Due @08:00AM			
	HOLIDAY				
14	Wed. Aug 03, 2022	Final Review Session		a-f	1.2e, 5.2a Appendix B: 1, 3, 4, 6, 8-24, 27, 28
15	TBD	Cumulative Final*		a-f	1.2e, 5.2a Appendix B: 1, 3, 4, 6, 8-24, 27, 28

CLASS GUIDELINES & EXPECTATIONS

Refer to the [Diagnostic Medical Sonography \(SONO\) Program Handbook](#) for classroom and lab etiquette as well as professional behaviour expectations.

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
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.