

# CLASS SYLLABUS



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

CLASS SECTION: DX01

TERM: 2021S

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](#).

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe. Our measures include COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. For details on these precautions please follow this link: <http://camosun.ca/covid19/faq/covid-fags-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor. If needed, alternatives will be discussed.

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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: Bridget Mavety

EMAIL: [MavetyB@camosun.ca](mailto:MavetyB@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

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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): [Click or tap here to enter text.](#)

PRE/CO-REQUISITE(S): C+ in AHLT 266

## COURSE DELIVERY

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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

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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”)

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### Sonography Canada Competencies:

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
- 2 Abdominal wall
- 3 Adrenal glands
- 4 Celiac trunk
- 5 Chest and thorax
- 6 Common iliac arteries
- 7 Common iliac veins
- 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
- 18 Cystic duct
- 19 Intrahepatic ducts
- 20 Appendix
- 21 Small bowel
- 22 Large bowel
- 23 Stomach
- 24 Kidneys
- 25 Renal arteries
- 26 Renal veins
- 27 Ureters
- 28 Urinary bladder
- 31 Hepatic veins
- 32 Hepatic artery
- 33 Portal veins

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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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

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DESCRIPTION	WEIGHTING
Quiz 1	10%
Quiz 2	10%
Workbook Assignment 1	5%
Workbook Assignment 2	5%
Workbook Assignment 3	5%
Workbook Assignment 4	5%
Midterm	25%
Cumulative Final Exam	35%
	<b>TOTAL</b> 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

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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 03, 2021	<ul style="list-style-type: none"> <li>• Introduction to course</li> <li>• Review course outline</li> <li>• History of ultrasound</li> <li>• Clinical uses of ultrasound</li> <li>• Role of the Sonographer</li> <li>• Components of an ultrasound examination</li> <li>• Understanding basic ultrasound imaging and principles</li> <li>• Ultrasound terminology and basics</li> </ul>	Chapter 1	a, b, e-1, f	Area 5: 5.2a, 5.2b
	Wed. May 05, 2021	<ul style="list-style-type: none"> <li>• Ergonomics for Sonography</li> </ul>		c	
2	Mon. May 10, 2021	<ul style="list-style-type: none"> <li>• Normal Anatomy of the Abdominal Vasculature</li> </ul>	Chapter 4	d	Appendix B: 1,4, 6, 7, 8, 13, 14, 25, 26, 31, 32, 33
	Wed. May 12, 2021	<ul style="list-style-type: none"> <li>• Abnormal Anatomy of the Abdominal Vasculature</li> </ul>			
3	Mon. May 17, 2021	<ul style="list-style-type: none"> <li>• Normal Anatomy of the Liver</li> </ul>	Chapter 5	d	Appendix B: 9
	Wed. May 19, 2021	<ul style="list-style-type: none"> <li>• Abnormal Anatomy of the Liver</li> </ul>			
4	HOLIDAY				
	Wed. May 26, 2021	<ul style="list-style-type: none"> <li>• Normal and Abnormal Anatomy of the Gallbladder and Biliary System</li> </ul>	Chapter 6	d	Appendix B: 15, 16, 17, 18, 19
5	Mon. May 31, 2021	FLEX TIME			
	Tues. June 01, 2021	Workbook Assignment #1 Due @ 08:00AM			
	Wed. June 02, 2021	Quiz #1			
6	Mon. June 07, 2021	<ul style="list-style-type: none"> <li>• Normal and Abnormal Anatomy of the Pancreas</li> </ul>	Chapter 7	d	Appendix B: 10
	Wed. June 09, 2021	<ul style="list-style-type: none"> <li>• Normal and Abnormal Anatomy of the Spleen</li> </ul>	Chapter 8	d	Appendix B: 12
7	Mon. June 14, 2021	<ul style="list-style-type: none"> <li>• Pediatric Upper Abdomen</li> </ul>	Chapter 19	d	
	Wed. June 16, 2021				
	Fri. June 18, 2021	Workbook Assignment #2 Due @ 08:00AM			
8	Mon. June 21, 2021	Review Session			
	Wed. June 23, 2021	Midterm			
9	Mon. June 28, 2021	<ul style="list-style-type: none"> <li>• Normal and Abnormal Anatomy of the Urinary System</li> </ul>	Chapters 10, 11	d	Appendix B: 24, 27, 28
	Wed. June 30, 2021				
10	Mon. July 05, 2021	<ul style="list-style-type: none"> <li>• Normal and Abnormal Anatomy of the Adrenal Glands</li> </ul>	Chapter 13	d	Appendix B: 3

WEEK	DATE RANGE	LECTURE TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
	<b>Wed. July 07, 2021</b>	• Pediatric Urinary System and Adrenals	Chapter 20	d	<i>Appendix B: 3, 24, 27, 28</i>
11	<b>Mon. July 12, 2021</b>	<b>FLEX TIME</b>			
	<b>Tues. July 13, 2021</b>	<b>Workbook Assignment #3 Due @ 08:00AM</b>			
	<b>Wed. July 14, 2021</b>	<b>Quiz #2</b>			
12	<b>Mon. July 19, 2021</b>	• Normal and Abnormal Anatomy of the GI Tract/Bowel	Chapter 9	d	<i>Appendix B: 20, 21, 22, 23</i>
	<b>Wed. July 21, 2021</b>	• Normal and Abnormal Anatomy of the Retroperitoneum • Normal and Abnormal Anatomy of the Peritoneal Cavity	Chapter 14 Chapter 3	d	<i>Appendix B: 11</i>
13	<b>Mon, July 26, 2021</b>	• Evaluation of Transplanted Organs	Chapter 24	d	
	<b>Wed. July 28, 2021</b>	• Point of Care (POC) Ultrasound • Foreign Bodies	Chapters 25, 26	d	
	<b>Fri. July 30, 2021</b>	<b>Workbook Assignment #4 Due @ 08:00AM</b>			
14	<b>HOLIDAY</b>				
	<b>Wed. Aug 04, 2021</b>	<b>Final Review Session</b>			
15	<b>TBD</b>	<b>Cumulative Final*</b>			

## CLASS GUIDELINES & EXPECTATIONS

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

## 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 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

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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>

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Support Service	Website
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>

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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.

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## 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](#) (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.