

COURSE SYLLABUS



COURSE TITLE:	MIDS 147 – Obstetrical Sonography Procedures 1
CLASS SECTION:	BX01AB
TERM:	F2023
COURSE CREDITS:	3
DELIVERY METHOD(S):	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](#).

INSTRUCTOR DETAILS

NAME:	Dustin Pendergast & Breanna Delgaty
EMAIL:	PendergastDustin@camosun.ca DelgatyB@camosun.ca
OFFICE:	Dustin: CHW 317; 250-885-0888 Breanna: CHW 317, 289-788-6827
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 expand on their understanding of the clinical applications of sonography for the surveillance of pregnancy. Students review anatomic relationships of the female pelvis while learning to recognize the normal and abnormal sonographic appearances of first trimester pregnancy. Students learn to select appropriate scanning protocols based on patient history, physiologic data, laboratory values, and/or complimentary imaging studies

PREREQUISITE(S):	All of: C+ in MIDS 121; C+ in MIDS 127
CO-REQUISITE(S):	C+ in MIDS 137
EQUIVALENCIES:	N/A

COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES

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

- explain the significance of gestational age, history, laboratory results, patient preparation, and body habitus on the approach to first trimester sonography and discuss the selection of protocols, transducers, and impact on resultant sonographic image quality.
- explain how the normal and abnormal sonographic appearance of maternal and fetal anatomy, including the cervix, uterus, endometrium, fallopian tubes, ovaries, vagina, gestational sac, yolk sac,

embryonic heart, fetal skeletal system, and umbilical cord alters depending on gestational age, physiological, hormonal, and pathological causes

- c) define and apply the components of a diagnostic examination to first trimester sonography.
- d) explain the significance of measurement techniques used to assess fetal age, anatomy, and growth during gestation

Sonography Canada Competencies:

- 2.3j Participate in patient education.
- 3.3i Understand when to perform a transperineal / translabial scan.
- 3.1e Assess and monitor patient's physical and mental status prior to and during examination and respond.
- 4.2g Use software calculation packages.
- 5.2c Correlate results from obstetric testing (amniocentesis, chorionic villus sampling, chromosome analysis, cell free DNA, dilation and curettage, non-stress testing).

Appendix A: Obstetrics and Gynecology

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
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
87	1st, 2nd, 3rd	Chorionicity
91	1st, 2nd, 3rd	Number of Fetuses
92	1st	Yolk sac

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Required Texts

Stephenson. (2023). *Obstetrics & Gynecology* (5th ed.). Wolters Kluwer.

Hall-Terracciano, B., & Stephenson, S. R. (2023). *Workbook for diagnostic medical sonography: a guide to clinical practice, obstetrics and gynecology* (5th ed.). Wolters Kluwer.

Optional Materials

Hagen-Ansert, S. L. (2018). Textbook of diagnostic sonography (8th ed.). St. Louis, MO: Elsevier.

Hagen-Ansert, S. L. (2018). Workbook for textbook of diagnostic sonography. St. Louis, MO: Elsevier/Mosby.

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.

GREEN = Asynchronous Content

WEEK	DATE	LESSON	READINGS	LEARNING OUTCOMES	LEARNING OBJECTIVES	SONOGRAPHY CANADA COMPETENCY
1	Sept 4	Labour Day: No Classes				
	Sept 5 (C/D Sections)	NOTE: Lecture this week will occur during Lab time, in CHW 117	(Obstetrics & Gynecology 5 th ed) Chapter 4, 5	a	1.0-1.14	3.3i
	Sept 7 (A/B Sections)	1. Introduction to Obstetrical Imaging				
LAB: No Labs Week 1	2. Ergonomics for Obstetrical Imaging					
2	Sept 11	3. Normal Anatomy of the First Trimester	Chapter 17	b	3.0-3.25	Appendix A: 1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 45
		4. Asynchronous TBD				Appendix A: 63, 71, 81, 92
	Sept 12, 14	5. LAB: Introduction to OB Simulators & Normal Transabdominal First Trimester Exam (8 weeks)		c	5.0-5.4	Appendix A: 1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 63, 92
3	Sept 18	6. Introduction to Fetal Growth Charts and Dating		d	6.0-7.0	Appendix A: 14, 15, 31, 45
	Sept 19, 21	8. LAB: Introduction to using the measurement packages on the GE		d	8.0-8.1	4.2g

WEEK	DATE	LESSON	READINGS	LEARNING OUTCOMES	LEARNING OBJECTIVES	SONOGRAPHY CANADA COMPETENCY
		ultrasound equipment using Phantom				
4	Sept 25	9. Abnormalities of the 1st Trimester 10. QUIZ 1 of 3 (Take Home Quiz) Workbook Activity 1 Due	(Obstetrics & Gynecology 5 th ed) Chapter 18	b	9.0-9.9	
	Sept 26, 28	11. LAB: Normal Transabdominal First Trimester Exam 8 Weeks (Mock Assessment)		c	11.0-11.5	Appendix A: 31, 62, 63, 67, 71, 81, 88
5	Oct 2	Truth and Reconciliation: No Classes 12. Ectopic Pregnancy & Uterine Pathology in Pregnancy	(Obstetrics & Gynecology 5 th ed) Chapter 19	b	12.0-12.14	
	Oct 3, 5	13. LAB: Assessment 1: Normal Transabdominal First Trimester Exam (8 weeks)		c	11.0-11.5	Appendix A: 31, 62, 63, 67, 71, 81, 88
6	Oct 9	Thanksgiving- No Classes 14. Asynchronous TBD		b		
	Oct 10, 12	15. LAB: Frist Trimester Transabdominal Exam (12 weeks)		c	14.0-14.12	Appendix A: 31, 62, 63, 67, 71, 81, 88
7	Oct 16	16. Twin/Multiple Pregnancy 17. Asynchronous TBD	(Obstetrics & Gynecology 5 th ed) Chapter 31	b	15.0-15.22	Appendix A: 87, 91
	Oct 17, 19	18.LAB: Frist Trimester Transabdominal Exam (12 weeks) 2nd Practice + NT		c	17.0-17.13 31.0-31.2	Appendix A: 31, 62, 63, 67, 71, 81, 88 Appendix A: 38, 40
8	Oct 23	MIDTERM REVIEW 19. QUIZ 2 of 3 (Take Home Quiz)				

WEEK	DATE	LESSON	READINGS	LEARNING OUTCOMES	LEARNING OBJECTIVES	SONOGRAPHY CANADA COMPETENCY
	Oct 24, 26	20. LAB: Normal Transabdominal First Trimester Assessment 12 Weeks (Mock Assessment)		c	14.0-14.12	Appendix A: 31, 62, 63, 67, 71, 81, 88
9	Oct 30	MIDTERM 21. Asynchronous TBD Ectopic Pregnancy Assignment Due		b		
	Oct 31, Nov 2	22. LAB: Assessment 2: Normal Transabdominal First Trimester Assessment (12 Weeks)		c		
10	Nov 6	23. First Trimester Case Studies 24. Asynchronous TBD		b		
	Nov 7, 9	25. LAB: First Trimester Endovaginal Exam (8 weeks)		c	11.0-11.5	Appendix A: 31, 62, 63, 67, 71, 81, 88
11	Nov 13	Remembrance Day Observed- No Classes 26. First Trimester Interventions	(Obstetrics & Gynecology 5 th ed) Chapter 36	a, b	24.0-24.10	5.2c Appendix A: 40
	Nov 14, 16	27. LAB: Normal First Trimester Endovaginal Exam (12 weeks)		c	23.0-23.12	Appendix A: 1, 3, 4, 5, 6, 8, 9, 11, 31, 45, 88, 92
12	Nov 20	28. Communication & Ethics for the Obstetrical Sonographer 29. Asynchronous TBD			27.0, 27.1	2.3j, 3.1e
	Nov 21, 23	30. : Normal First Trimester Endovaginal (8 Weeks) (Mock Assessment)		c	23.0-23.12	Appendix A: 1, 3, 4, 5, 6, 8, 9, 11, 31, 45, 88, 92
13	Nov 27	Dementia Simulation with CMLA (Tentative) 31. Asynchronous TBD		b		

WEEK	DATE	LESSON	READINGS	LEARNING OUTCOMES	LEARNING OBJECTIVES	SONOGRAPHY CANADA COMPETENCY
	Nov 28, 30	32. LAB: Assessment 3: Normal First Trimester Endovaginal (8 Weeks)		c	23.0-23.12	Appendix A: 1, 3, 4, 5, 6, 8, 9, 11, 31, 45, 88, 92
14	Dec 4	FINAL REVIEW SESSION 33. QUIZ 3 of 3 (Take Home) Workbook Assignment 2 Due				
	Dec 5, 7	34. LAB: FINAL Assessment: Randomly Drawn Assessment		c	32.0-32.12	Appendix A: 31, 62, 63, 67, 71, 81, 88
15-16		Cumulative Final*				

**Do not book travel or flights until the final examination schedule has been published by the registrar.*

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). <https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>

EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
Quizzes (3 @ 2%)	6%
Ectopic Pregnancy Scan Assignment	6%
Workbook Activity 1 + 2	2%
Skills Assessment 1	7%
Skills Assessment 2	7%
Skills Assessment 3	7%
Final Skills Assessment	25%
Midterm	15%

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](https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf) policy for more information. <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf>

DESCRIPTION	WEIGHTING
Final Exam	25%
TOTAL	100%

Students must pass all Critical Criteria in the Professional Performance section, and achieve at least 65% on the Interrogation and Image Quality section and sub-sections of each Skills Assessment.

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.

COURSE GUIDELINES & EXPECTATIONS

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

Quizzes, Midterms & Final Exams

With the exception of emergency circumstances, a student who does not notify the instructor ahead of time about absenteeism or does not have an acceptable reason for being absent the day of the midterm or final exam or a quiz will receive a grade of zero (0%).

Late assignments/submissions will not be graded and will receive a score of zero (0%) unless the student is able to demonstrate emergency. Students must contact the instructor *prior* to submission deadlines.

The quizzes, midterm and written final exam are administered online via D2L. For these tests, the content is cumulative from all lectures/labs/assigned readings up to that point in the course. Students who do not perform well on the quizzes or midterm should seek help from the instructor as early as possible to work together to develop a plan for success.

Illness and Emergency Circumstances

It is acknowledged that short-term illness or personal priorities that are of critical importance, such as an appointment with a specialist, may occasionally conflict with a course assessment. In this case, as long as the student notifies the instructor before the anticipated absence, the student may be provided the opportunity to make up an assessment. Notifying the instructor by email is considered an acceptable means of communication.

This exception is not intended to be the norm. Students are expected to be present for all course assessments. The instructor will use discretion to determine if the reason for absenteeism is acceptable and/or whether or not absenteeism is problematic. Reasons that are unacceptable include, and are not limited to: birthday parties, family gatherings, employment commitments, etc. Students who miss significant time may be at risk of falling behind in the course. The instructor will use discretion to determine what course of action will be taken for students who miss multiple activities and/or assessments.

Exceptions due to emergency circumstances, such as health problems or unavoidable family crises, require the approval of the instructor. In the case of an emergency, the student may be required to provide verification of the emergency circumstance as early as possible. Personal commitments, such as holidays or scheduled flights, are not considered to be emergencies.

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 camosun.ca/services.

Support Service	Website
Academic Advising	camosun.ca/services/academic-supports/academic-advising

Support Service	Website
Accessible Learning	camosun.ca/services/academic-supports/accessible-learning
Counselling	camosun.ca/services/health-and-wellness/counselling-centre
Career Services	camosun.ca/services/co-operative-education-and-career-services
Financial Aid and Awards	camosun.ca/registration-records/financial-aid-awards
Help Centres (Math/English/Science)	camosun.ca/services/academic-supports/help-centres
Indigenous Student Support	camosun.ca/programs-courses/iecc/indigenous-student-services
International Student Support	camosun.ca/international
Learning Skills	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills
Library	camosun.ca/services/library
Office of Student Support	camosun.ca/services/office-student-support
Ombudsperson	camosun.ca/services/ombudsperson
Registration	camosun.ca/registration-records/registration
Technology Support	camosun.ca/services/its
Writing Centre	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills

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 Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>
Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

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:

<https://camosun.ca/services/academic-supports/accessible-learning>

Academic Progress

Please visit <https://camosun.ca/sites/default/files/2023-02/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 <https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <https://camosun.ca/registration-records/tuition-fees#deadlines>.

Grading Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

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 <https://camosun.ca/sites/default/files/2021-07/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: <https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and camosun.ca/services/sexual-violence-support-and-education. 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 <https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

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.