



Diagnostic Medical Sonography Program Information Session

* Note, completing this information session is a pre-requisite for entry into this program.
Upon completion, you will be asked to complete a short survey.





Territorial Acknowledgement

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

Info Session Agenda

1. Introductions
2. Admission & Application Requirements
3. Program Participation Requirements
4. Financial Aid
5. About Camosun College
6. Student Services at Camosun
7. Introduction to Ultrasound and Sonography
8. Sonography Program Overview
9. Estimated Program Costs
10. Questions & Answers
11. Next Steps

Diagnostic Medical Sonography Program



Dr. Brent Mekelburg
Chair, Allied Health
& Technologies



Dustin Pendergast
Program Leader



Matthew Barbas
Instructor



Bridget Mavity
Program Leader,
Instructor



Jana Suraci
Instructor



Stephan Tuomi
Instructor



Breanna Delgaty
Instructor



Eleze Munro
Instructor



Kendal Adam
Instructor



Lynelle Yutani
Instructor

Instructors



Admission Requirements



Indigenous Limited Priority Admissions

- The School of Health & Human Services (HHS) offers Priority Seating for Indigenous students in all Health related programs.
- Visit [Eyē? Sqâ'lewen - Centre for Indigenous Education & Community Connections \(IECC\)](#) for information on how to apply.
- Any questions about the application process, please contact hhsindigenoussupport@camosun.ca
- The **Indigenous Limited Priority Admissions** process, approved by the Board of Governors, supported by the Education Council, and approved by the BC Human Rights Tribunal, welcomes applications from all qualified Indigenous applicants.

Initial Academic Admission Requirements

- English 12 (B = 73%)*
- Pre-Calculus 12 (B = 73%)*
- Physics 12 (B = 73%)*
- Anatomy and Physiology 12 (B = 73%)*
- Medical Terminology (B = 73%)*

Academic courses **MUST** be completed within the last 5 years**

* *Equivalent or higher*; for a full list of acceptable admission requirements please visit our website or contact an Admissions Advisor at the College.

** *Students may be able to use or demonstrate alternative ongoing currency in certain requirements.*

Casper Situational Judgment Test (Non-Academic Assessment)

- You will receive registration and scheduling instructions for the non-academic assessment (Casper test).
- There is an approximate **\$50 fee** associated with the Casper test that has not been factored into the total program fees.
- Students may take the assessment one time per application cycle and must do so within the prescribed timeframe indicated by the program.
- Students applying to other Allied Health & Technologies programs at Camosun College need only take the assessment once per application cycle.

Non-Academic Assessment: Casper Test

What does Casper assess for?



Collaboration



Communication



Empathy



Equity



Ethics



Motivation



Problem Solving



Professionalism



Resilience



Self Awareness



Applicant Ranking

Qualified applicants are ranked

- 50% of each students' rank comes from their GPA of the admission requirements ***only***, no other grades are used in the calculation.
- 50% of each students' rank comes from their non-academic assessment (CASPer Test)
- There is no interview process and no resume/cover letter required
- Up to 16 of the top ranked students receive an invitation to the program.
- Two priority seats are reserved for applicants with Indigenous Ancestry

**Students will pay a \$175.00 deposit to hold a seat; the deposit goes towards your first semester tuition but is non-refundable if you change your mind.*

Program Waitlist

- The program maintains a short waitlist for late entry into the same year due to student withdrawals or deferrals. Waitlists are not retained for future years.
- Applicants who do not receive a seat in the year of their application need to reapply in order to be eligible in a subsequent year.
- Applicants will have to re-take the non-academic assessment (Casper test) in each application year.
- You only have to take it once per application year for all AHT programs at Camosun. The assessment company will send your results to multiple schools for a small fee.

Admission Requirements

Required for your online application by **September 13, 2024**

- A completed [Physical Requirements Form](#) (this can be filled out online)
- Attend a SONO Information Session & complete online questionnaire. [Be sure you do the survey!](#)
- 40 hrs [volunteer work](#) in a patient related environment (interactive role) e.g. Long-term care - require letter from supervisor confirming 40 hours and responsibilities performed – *some health care professionals can use prior work experience**

Important Dates

May 15, 2024

- Application window for the 2025 intake opens

August 15, 2024 at noon

- Closing date for all applications for the 2025 intake

September 13, 2024 at 4 pm

- Date when proof of all admission requirements will need to be received by the college

May 5, 2025

- Program start date! Some program participation requirements must be completed before the program starts, some you will complete while in the program.

Program Participation Requirements

DO NOT begin these before being offered a
seat!

Criminal Record Check

Students are required to do a Criminal Record Check (CRC).

- Camosun will provide details prior to clinical work starting.
- Previous CRCs may be accepted for this purpose.

* Please note, your local police station will charge a fee for this service.

*Students are responsible for these costs.

Maskfit Testing

Students must have yearly respirator mask 'fit-testing' done.

- Students will be responsible for completing this process prior to the first clinical experience

*Students are responsible for these costs.

Basic Life Support

Students must have completed and be current in Basic Life Support prior to practicum.

- Annual recertification must be maintained throughout the program.

Students will be responsible for the cost of this certification.

Tuberculosis (TB) Testing

Students must provide evidence that they do not have *active* TB.

- Acceptable evidence is a negative TB skin test or a negative chest x-ray.
- Evidence must be dated no more than six months before clinical exposure starts.
- Additional testing is required after possible exposure to TB and/or travel within an area that there is a known prevalence of TB.

*Previously having TB or a previous positive test does not automatically exclude a student from participation

*Students are responsible for the cost of testing.

Immunizations

Students must provide evidence of their immunizations or immunity to preventable, communicable diseases, including COVID-19. To attend clinical at our partner sites, students **MUST** be fully vaccinated per the [Practice Education Guidelines of B.C.](#)

- **Note:** An individual is considered Fully Vaccinated when they are at least seven (7) days post-receipt of the second dose of a World Health Organization approved COVID-19 vaccine

Students are highly recommended to maintain current immunizations as per the Practice Education Guidelines of B.C. Recommended immunizations are found on the Health Sciences Placement Network (HSPNet) of Canada website by searching for immunization guidelines.

**Failure to comply with immunization guidelines could result in the health care organization or the College barring the individual from the clinical/practicum setting until proof of immunity is provided and/or until a communicable disease outbreak is declared over. This could impact a student's ability to successfully complete the clinical/practicum placement and/or a clinical/community rotation.*

Financial Aid



Money You Repay

- Full time student loans (and grants)
- Part time student loans (and grants)

Money You Don't Repay

- Entrance Awards & Bursaries
- Awards
- Bursaries

Other funding

- Adult Upgrading Grant
- Tuition Waiver program for former youth in care
- Sponsored tuition for Indigenous students



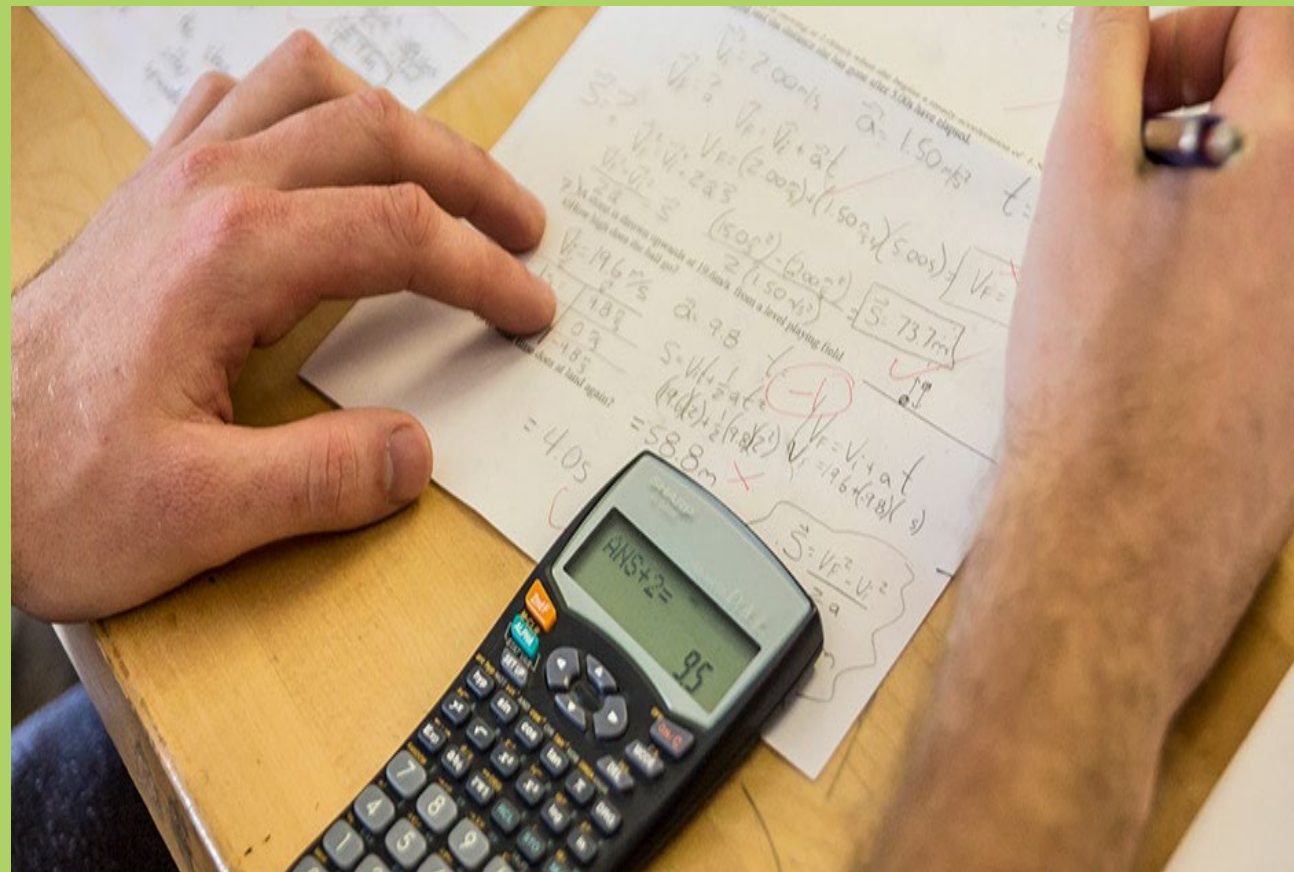


Full Time Loans & Grants

- Create an online account (dashboard)
- Go to Service BC location (Vernon Ave) or video chat via Service BC app
- Login and complete application
- Wait for Notification of Assessment

Foundation Bursaries

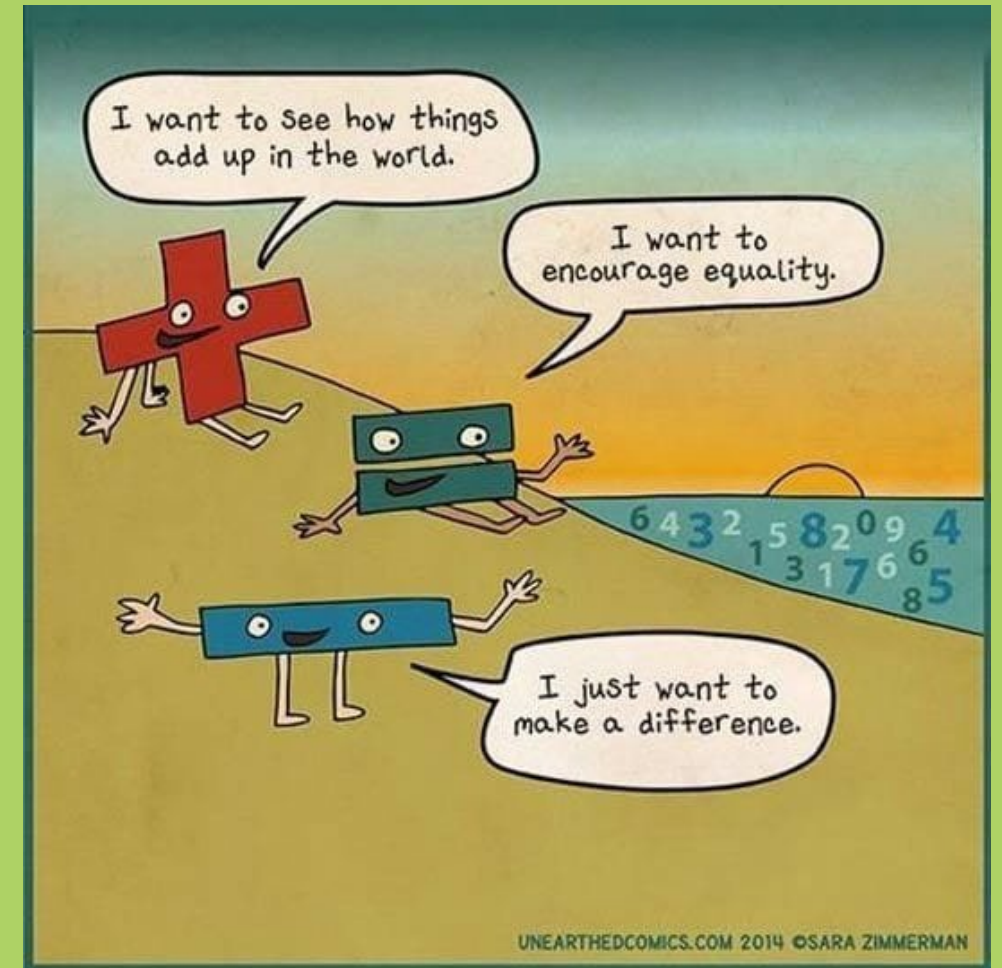
- camosun.ca/bursaries
- Full time students only
- Demonstrate financial need
- Additional criteria
- Two application periods – fall and winter
- \$500 to \$1500 bursaries





Other Funding

- Adult Upgrading Grant (AUG) – high school equivalent courses
- Tuition Waiver Program for former youth in care
- Eyē? Sqâ'lewen – assistance accessing funding for Indigenous students



Graduate Awards

BC Radiological Society Award

- Awarded to a first year student from the Diagnostic Medical Sonography program who is well-rounded and demonstrates professionalism and leadership. The student also supports fellow students through peer coaching and is an active member of the Camosun community.

Allied Health & Technologies Student Award

- Awarded to students in first and second year in the Allied Health & Technologies programs who demonstrate extraordinary grit, courage, resolve, and strength of character in the pursuit of their educational goals while maintaining a positive attitude and engaging with their peers and instructors in dedication to their learning.

Capstone Award

- A total of \$1500 awarded to Graduates for Capstone Project Excellence



Financial Aid & Awards

Phone: 250-370-4862

Email: financialaid@camosun.bc.ca

Website: camosun.ca/financialaid

Phone/email hours:

9am-4pm, Monday-Friday

In-person hours:

10am-2pm, Monday-Friday



About Camosun College



Camosun College

Camosun College is B.C.'s largest public college

- 19,000+ students
- 1,200+ faculty and staff
- Programs range from arts and business to tech and trades to university transfer and continuing education
- Credentials include dual credits, certificates, diplomas, degrees, post-degree diplomas

School of Health & Human Services (HHS)

Camosun College offers more than 15 health and human services programs, including degrees, post-degree diplomas, certificates, diplomas and university transfer courses.

- Our School, the School of Health and Human Services (HHS) is a place of warmth and caring.
- Our goal is to educate and support “flourishing Individuals, families and communities”.

Centre for Health and Wellness (CHW)

- All Health and Human Service (HHS) Programs except Dental are delivered at the Centre for Health and Wellness (CHW) at Interurban Campus
- The CHW brings together HHS Programs and allows a more interdisciplinary approach to teaching and learning
- The CHW provides twenty-first century learning environments including modern classrooms designed to foster active learning, hands-on labs, high technology simulation environments, and lots of collaboration spaces

Alex & Jo Campbell Centre for Health and Wellness

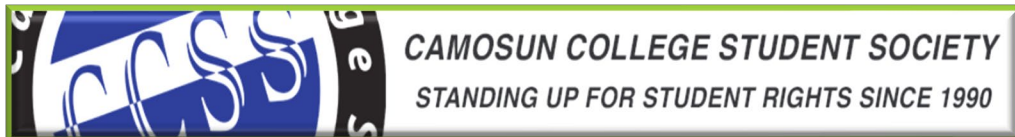
21st century education for outstanding health and wellness professionals

- \$63.8 million investment
- 89,000 sq. ft. facility at Interurban campus
- 800+ students
- Latest in health education teaching
- Interdisciplinary approach is aligned with Island Health



Services for Students at Camosun

Student Services at Camosun



Indigenous Support Coordinator

Artemis Fire is Red River Métis and grateful to be a visitor on the unsundered territories of the ləkʷəŋən and W̱SÁNEĆ peoples. Artemis is passionate about walking with people on their journeys.



As the Health and Human Services Indigenous Support Coordinator, Artemis supports students in various ways, including assisting applicants to confirm their Indigenous identity.

firea@camosun.bc.ca



**View the Dean's Welcome
and the School of Health &
Human Services (HHS)
Student Handbook online**



**Carly Hall, RN, BSN,
MEd**
Dean, School of Health
and Human Services

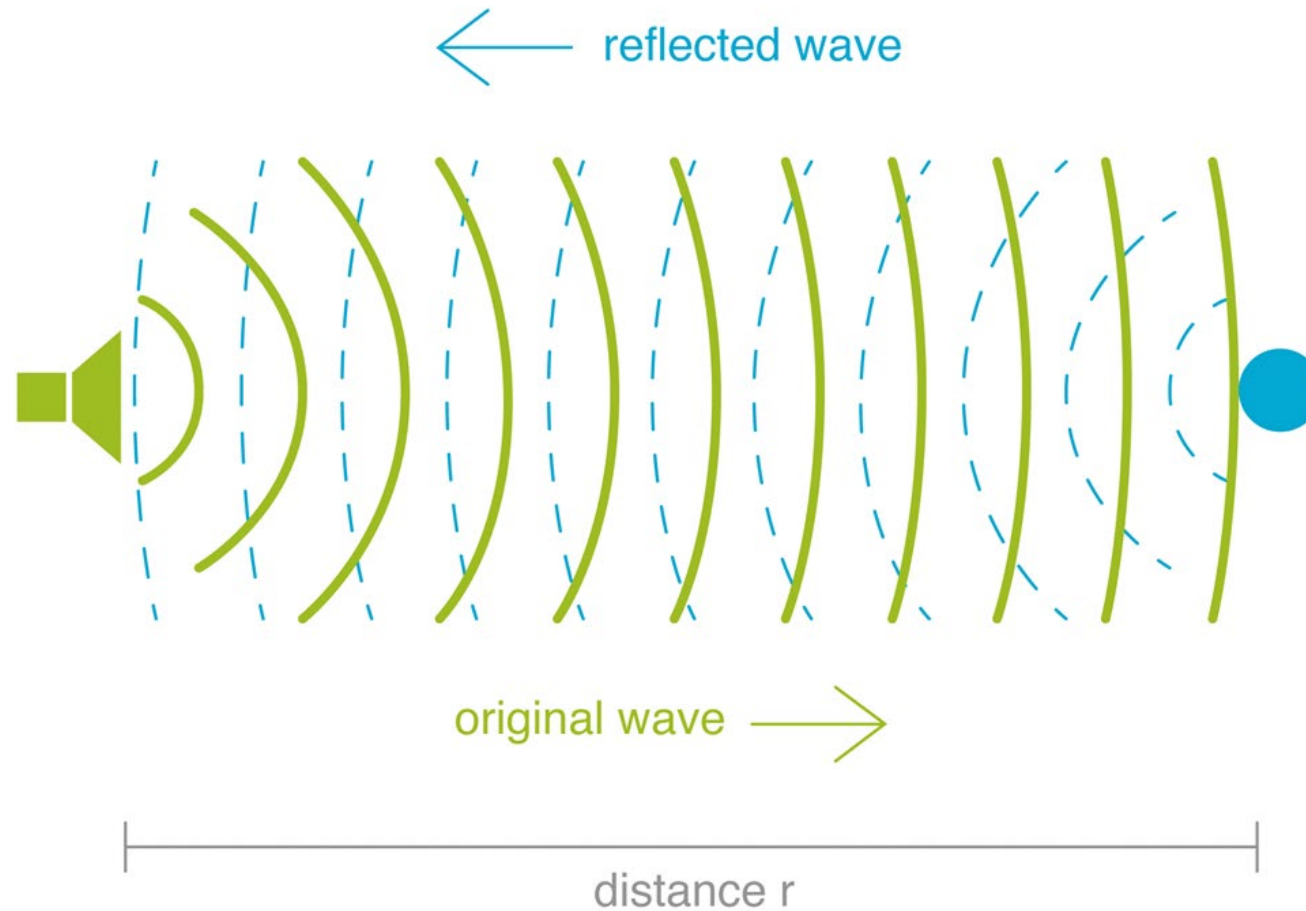
What is Ultrasound?

What are Sonograms or Ultrasounds?



Pictures produced using sound waves in the same way bats use sound for echolocation!

How images are formed



What is Diagnostic Medical Sonography?

It is the art and science of producing medical images using sound waves

- Sonograms are used to help physicians diagnose and treat disease and injury
- A sonographer produces images that a radiologist interprets to aid in diagnosing a patient
- Ultrasound can be used on every part of the body—not just for babies!

Role of the Sonographer

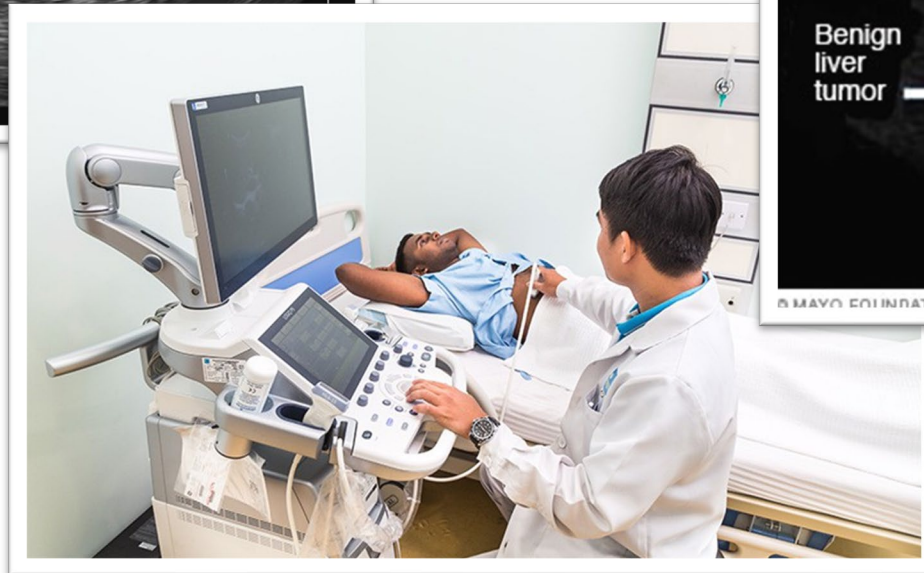
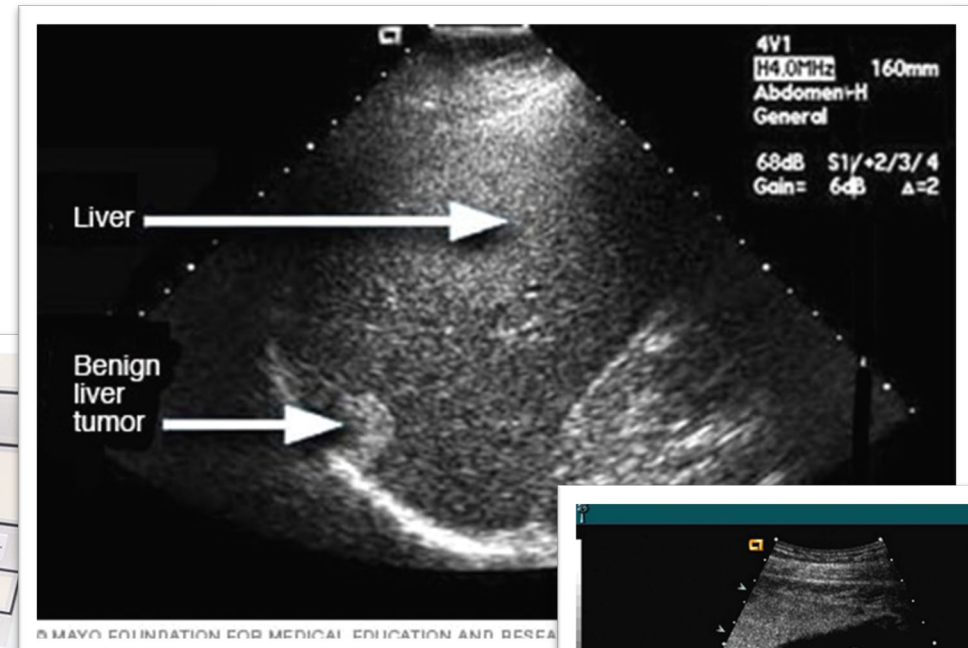
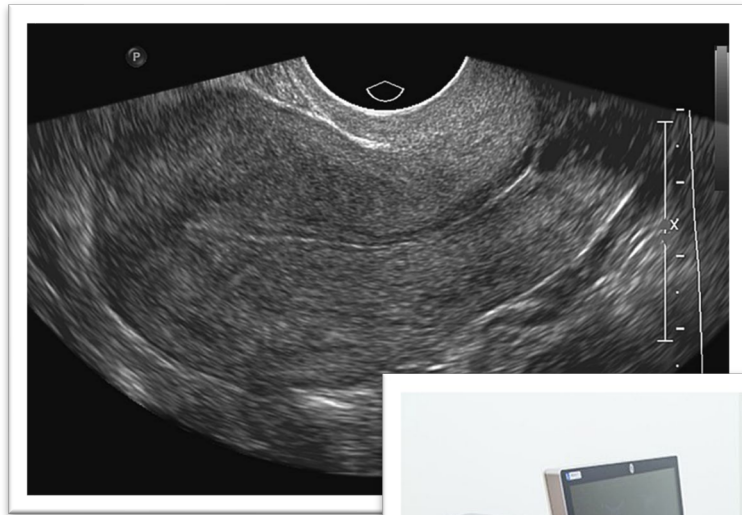
- Prepare the exam room and ultrasound equipment to conduct examinations
- Recognize and record the appropriate anatomy and pathology using sonographic equipment
- Write reports based upon the scan results and completion
- Alert appropriate medical staff of any abnormalities that need immediate attention
- Use the ability to solve problems and make decisions
- Work independently or with minimal supervision and as part of a team
- Manage multiple priorities and projects, and display flexibility in a fast-paced work environment
- Maintain the strictest levels of confidentiality
- Pursue professional development for the continual improvement of patient care

Role of the Sonographer

Sonographers also participate in a variety of scenarios beyond imaging by being involved in or assisting with:

- Miscarriages, Fetal Abnormalities, Fetal Demise and Pregnancy Termination
- Cancer diagnoses, palliative procedures
- Assisting patients with toileting, vomiting or their IVs
- Imaging critically ill patients in the various ICUs
- Interventional Procedures:
 - Various biopsies—ie) Liver, Kidney, Thyroid, Prostate etc.
 - Drainages—removing fluid from around the lungs or the abdomen by inserting a tube through the skin
 - Abscess drainages—removing pus from wounds
 - Joint injections, contrast injections
 - Pericardial (around the heart) drainages
 - Assisting with transesophageal imaging of the heart (placing a long ultrasound probe down the throat)

Role of the Sonographer – General Imaging



Role of the Sonographer – General Imaging



Pediatric Imaging

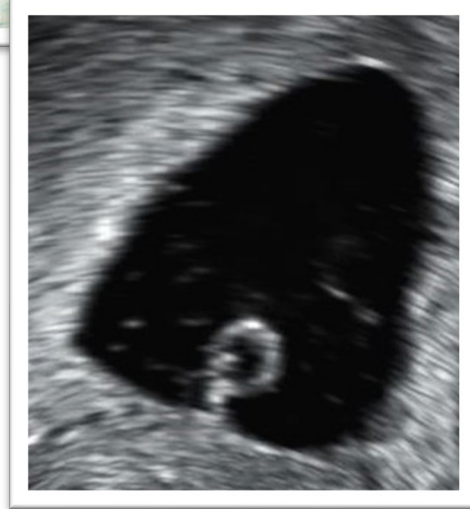


Liver Core Biopsy

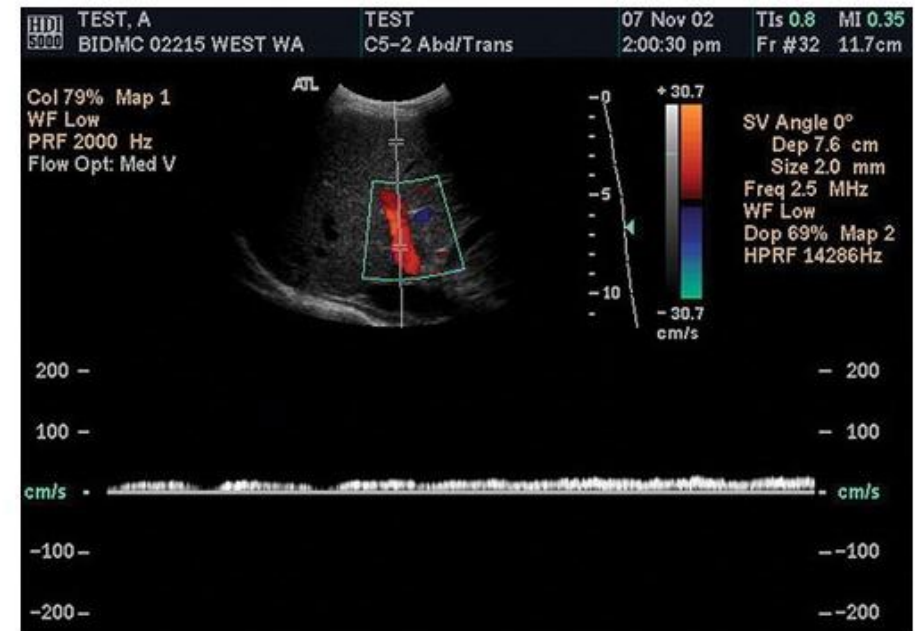
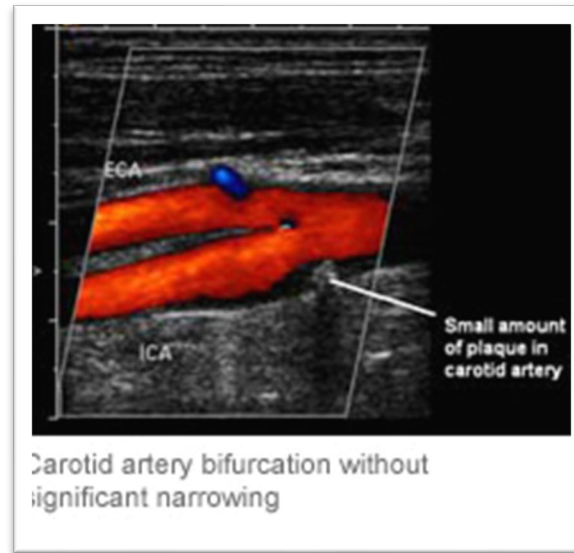
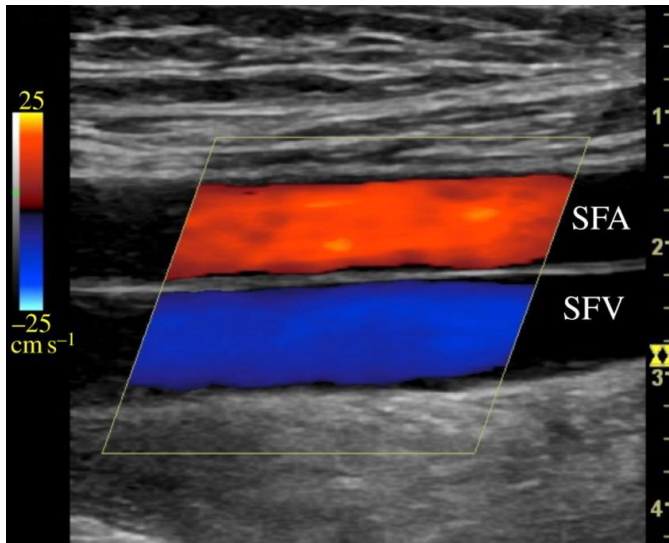


Thoracentesis

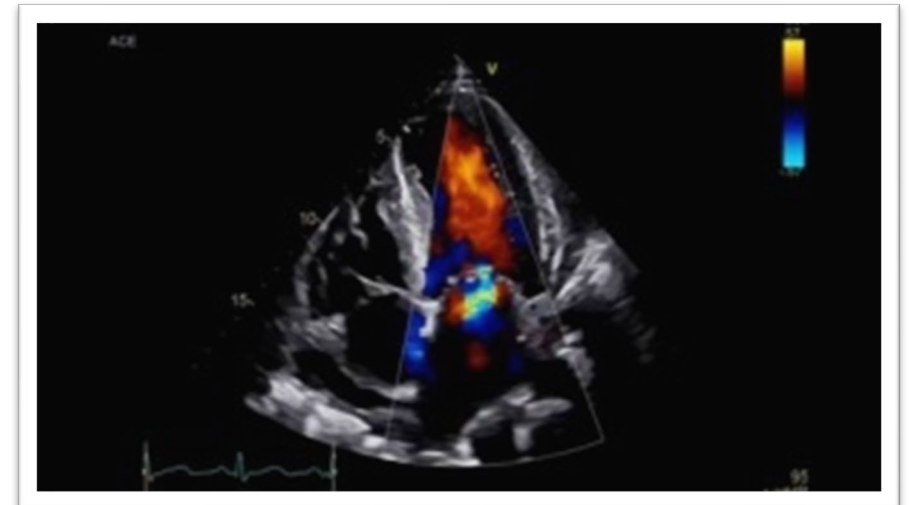
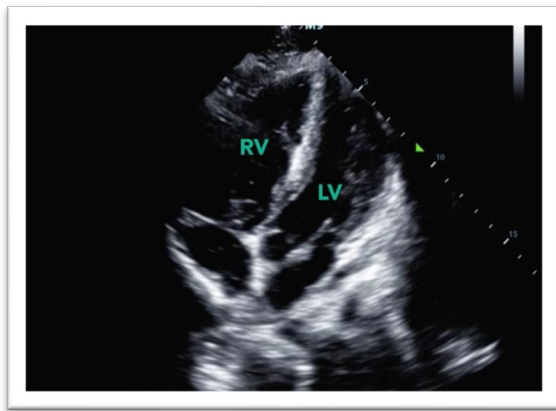
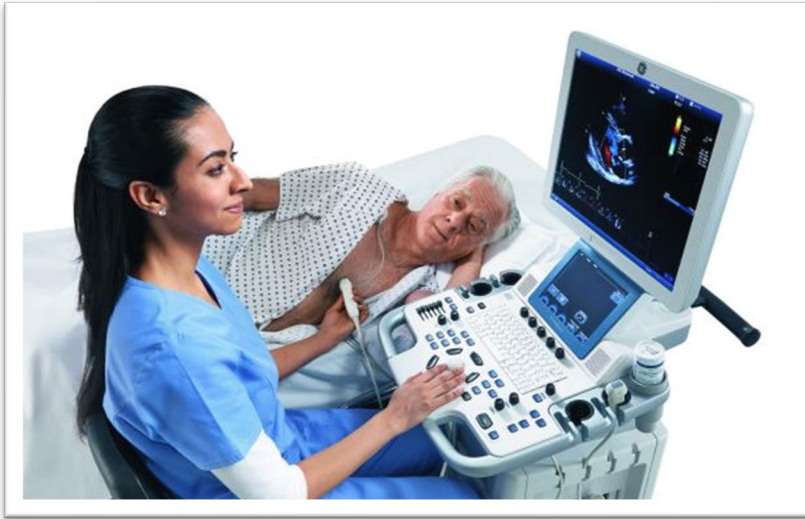
Role of the Sonographer – Miscarriages & Pregnancy Loss



Role of the Sonographer – General Vascular Imaging



Role of the Sonographer – Cardiac Imaging



Role of the Sonographer – Patient

Care



Role of the Sonographer – ICU Exams



Role of the Sonographer – Part of a Healthcare Team



Role of the Sonographer- Writing Technical Impressions



Appendix 1 – Sample Sonographer Worksheet

SONOGRAPHER WORKSHEET - SAMPLE
Sonographer Observations only.
This is NOT a diagnosis by a medical practitioner

Exam Date: DD - MON - YY

Clinical Information: _____

LMP: DD-MON-YY = wks days Uncertain LMP G T P A L

1st US on: DD-MON-YY CRL = mm = wks days No previous scan

Gestational age today = wks days Based on: U/S LMP IVF conception Last Scan Date: DD-MON-YY

Number of Fetuses: Membrane: Chorionicity/Amnioncity:

Fetus A Fetus B Fetus C EV: Yes No EV#

Fetal Position: FHR: BPM

Placenta: Previa: Yes No

DVP: cm Cervix (less than 32wk 0d): cm

NT: mm FMF #:

	Less than 10%	10-50%	50-90%	Greater than 90%
	(For gestational age today)			
CRL <u> </u> mm = 50% for <u> </u> wks				
BPD <u> </u> mm = 50% for <u> </u> wks				
HC <u> </u> mm = 50% for <u> </u> wks				
AC <u> </u> mm = 50% for <u> </u> wks				
FL <u> </u> mm = 50% for <u> </u> wks				

Today's Est. Fetal age: wks days \pm wks Est. Fetal Weight: gm

Today's Est. Fetal age based on: LMP 1st US IVF Conception Today's Scan EDD: DD-MON-YY

Cerebral Ventricles	Abd. Cord Ins.		
Cisterna M./Cerebellum	Heart (axis) 4C		
CSP	Heart (SAX and/or Outflows)		
Choroid Plexus/Ventricles	Symmetrical Lung Fields		
Face (Lips/Orbits)	Stomach		
Spine	Kidneys		
4 Limbs each with 3 segments	Bladder		
	3VC		
Genitalia: <input type="checkbox"/> probably M <input type="checkbox"/> probably F <input type="checkbox"/> not determined			

FETAL SOFT MARKERS Markers Not Assessed

Choroid Plexus Cyst (CPC) None seen BI/ Uni lateral mm (record largest)

Cardiac Echogenic focus None seen Present

Nuchal fold (thickness) Normal mm

Echogenic Bowel Normal Grade 2 Grade 3

Pyelectasis None L mm R mm

Expand the exam as required. Document and measure, if appropriate, abnormal findings and structures not well seen.

Comments: _____

Date DD - MON - YY Sonographer Initials

©Perinatal Services BC AUGUST 2015

The Sonography Program at Camosun College





Review the Sonography program pages online:

Program Overview

Courses

Costs



Accreditation



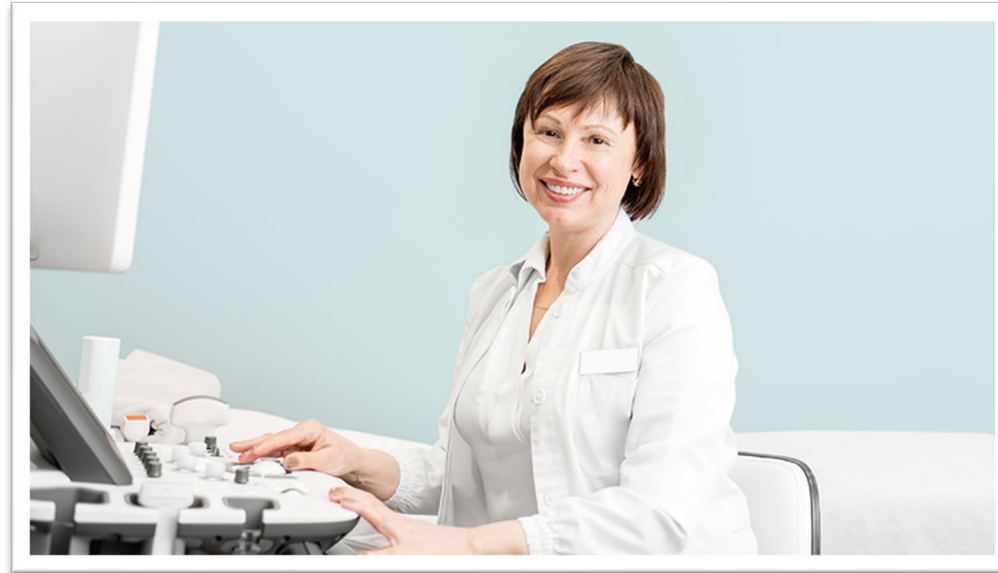
ACCREDITATION
CANADA



EQUAL
CANADA

The Camosun Diagnostic Medical Sonography Program is currently “Accredited with Conditions” through [Accreditation Canada](#). “Accredited with Conditions” status is the highest status a new program can achieve.

National Licensing Body



The Sonography (SONO) Program

- Intense 24 months of study (*no summer breaks!*)
- 4 month long terms; 6 terms in total
- Classroom with labs (including simulation) alternating with clinical semesters with online courses
- In Terms 2-5, courses are 50% Asynchronous—time management is important to keep pace with the material
- In addition to using simulators, students act as surrogate patients to learn positioning techniques as well as interpersonal skills
- Classes run 5 days/week, often from 0830 – 1730 hrs
- Students are expected to practice up to **14 hours/week** (not including lab hours already scheduled in the program)

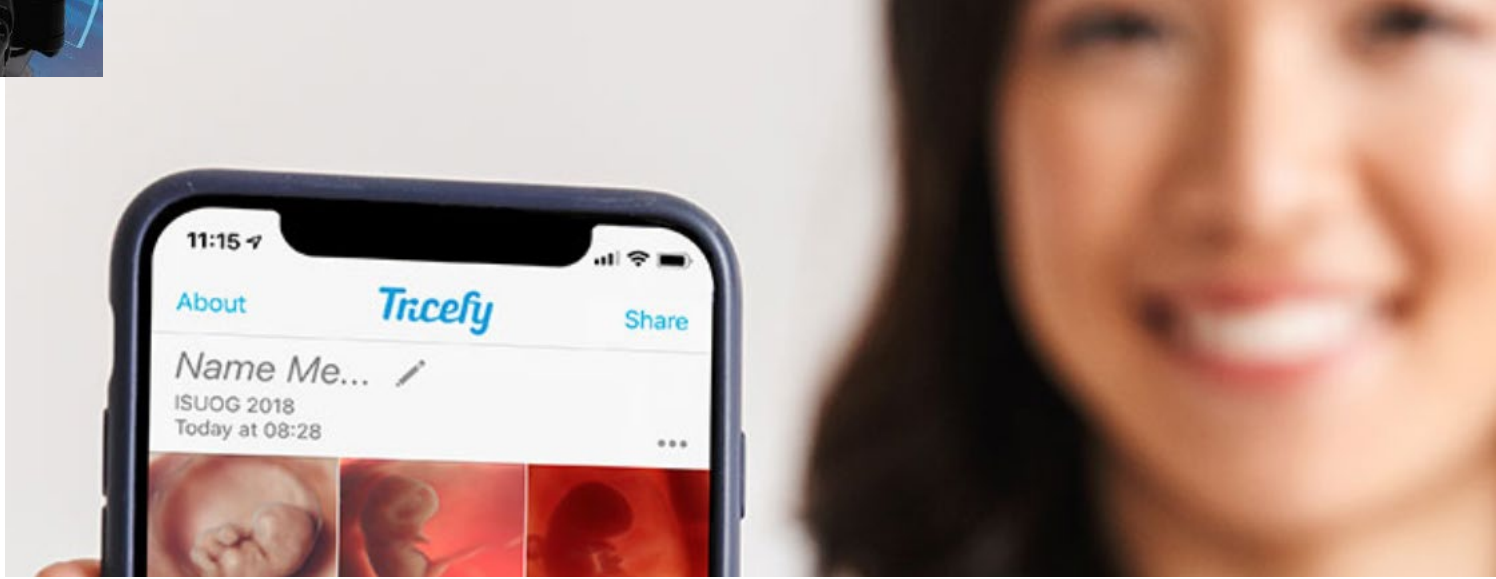


LOGIQ™ E10

Empowering You to Make the Difference



SonoSIM



Sonography Program Overview – Equipment



Attributes that Contribute to Success in the Program

- Excellent physical fitness and mental acuity
- Competence in written and oral English
- *Fluent* computer skills – reliable access to a personal computer & internet
- Ability to manage time commitment to school & study
- Financial security – not having to work during the program
- Learn more about the profession; read and talk to people who are Diagnostic Medical Sonographers
- Enhanced anatomy knowledge, spatial reasoning
- Adaptability and critical thinking skills

Program Map

Year One

Summer	Academic Term 1
	AHLT 112 Patient Management for Allied Health
	AHLT 266 Introduction to Cross Sectional Anatomy
	MIDS 121 Introduction to Sonography Scanning Skills
	MIDS 127 Abdominal Sonography Procedures & Scanning Basics
MIDS 139 Sonography Principles & Instrumentation 1	
Fall	Academic Term 2
	AHLT 104 Professional Communication for Allied Health
	AHLT 134 Legal & Professional Ethics for Allied Health
	MIDS 137 Pelvic Sonography Procedures
	MIDS 147 Obstetrical Sonography Procedures 1
	MIDS 151 Intermediate Sonography Scanning Skills 1
MIDS 167 Basics of Electrocardiography	
Winter	Academic Term 3
	IST 120 Introduction to Indigenous Peoples
	MIDS 181 Intermediate Sonography Scanning Skills 2
	MIDS 187 OB Sonography Procedures 2
	MIDS 197 Cardiac Sonography Procedures 1
MIDS 199 Sonography Principles & Instrumentation 2	

Year Two

Summer	Academic Term 4
	AHLT 268 Professional Preparation for Allied Health
	MIDS 227 Pediatric & Superficial Structures in Sonography Procedures
	MIDS 231 Intermediate Sonography Scanning Skills 3
	MIDS 237 Vascular Sonography Procedures
MIDS 247 Cardiac Sonography Procedures 2	
Fall	Academic Term 5
	HLSC 264 Interprofessional Practices in Health Care
	MIDS 267 Musculoskeletal Sonography Procedures
	MIDS 281 Advanced Sonography Scanning Skills
	MIDS 287 Interventional Sonography Procedures
MIDS 297 Cardiac Sonography Procedures 3	
Winter	Academic Term 6
	AHLT 288 Capstone Projects for Allied Health
	PRAC 290 CORE Sonography Competency
	One of: PRAC 295 General/OB Sonography Competency PRAC 296 Cardiac Sonography Competency

About Electives Requirements

- Sonographers are at high risk for workplace injury due to long hours of performing repetitive tasks and the demanding physical nature of scanning.
- Electives should help students integrate knowledge of health, nutrition, and personal wellness supports long-term physical functioning in the workplace while enhancing potential personal and professional success.
- Electives may come from the following Camosun courses (or equivalent transfer credit):
 - 3 Credits of electives can come from of the following subject areas within any Social Sciences, Humanities, or Fine Arts courses with the following course codes:
 - ANTH, ART, GSWS, HLTH, MUSC, PSYC, PHIL, REL, SOC, SOCW
 - 3 Credits of electives can come from any of the following subject areas within Sport & Exercise:
 - SPMA
- You may choose to complete these electives *during any term of the program* and may use equivalent transfer credits to satisfy this requirement.



6 credits of Electives are **REQUIRED** for program completion*

**NOTE: Elective courses cannot be calculated in total program costs.*

Clinical Experience

Clinical placements will be at a variety of sites on
Vancouver Island

- Students participate in one of two different clinical experiences, depending on placement availability
 - Cardiac
 - General/OB
- Not all specialties are offered at all sites
- Students are responsible for providing their own transportation and accommodations while on their clinical placement; keep these costs in mind

There are no guarantees that students will receive their preferred site placements OR preferred specialty

Estimated Program Costs

<u>Tuition</u>	\$39,250*
<u>Student Fees</u>	\$1,863
<u>Application Fee</u>	\$46
<u>Casper Test</u>	\$66
<u>Examination/Professional Fees (certification)</u>	\$1025
Text Books (est. MSRP new)	\$2,958
Computer	\$1,560
Expendable Supplies	\$1,352
Paper, binders, pens, photocopying, discs, printer cartridges etc.	
<u>Uniforms & Shoes</u>	\$611
Scrub tops must be purchased at Camosun	
Program Requirements	\$362
- <u>First Aid/BLS</u> , <u>Criminal Record Check</u> , <u>TB test</u> , <u>Mask Fit test</u>	
TOTAL =	\$49,093*

*Does not include elective tuition costs



IMPORTANT

Costs shown above are estimated only and tuition estimates may not reflect up-to date tuition costing. Students are encouraged to [visit the program website for current tuition costing information.](#)



Investing in your future

Cost of Schooling:

- $\$47,753 \div 6 \text{ Terms} = \text{an average of about } \$7,958/\text{term}$
- $\$7,958 \div 4 \text{ Months (per term)} = \text{about } \mathbf{\$1,989/\text{month}}$
- About $\$497/\text{week}$, $\mathbf{\$99/\text{day}}$ or about $\mathbf{\$13/\text{hour}}$

Employment Potential working full time:

- Approx. $\$75,000/\text{year}$ @ 37.5 hrs/week to start
- Earning about $\mathbf{\$5800/\text{month}}$ to start
- **From $\mathbf{\$38.70/\text{hour}}$ – almost *triple* your investment in just two years!**

Sonography education at Camosun College is an inclusive, authentic learning experience with low student to instructor lab ratios, and smaller cohort sizes. We are a student-centered organization transforming learners into competent, compassionate health professionals. See our website for exact

tuition.



Post Graduation

- National Certification: [Sonography Canada](#)
- Eligible to work in all provinces
- Employment opportunities in BC [WorkBC Sonography Technologists](#)
- Most technologists entering practice find immediate Casual work: Casual may mean close to full time hours, full time positions are usually filled from Casual workforce
- Pay Scale – [Health Sciences Association](#)
- Ongoing opportunities: Education, Management, Equipment Sales, Applications, Veterinary

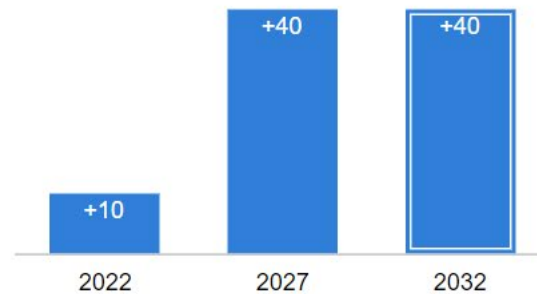
Sonographer Jobs Future

Expected Job Openings (2022-2032)

360

Source: B.C. Labour Market Outlook

Forecasted Job Openings



Helpful Websites



- [SONO program pages](#)
- [Course outlines](#)
- [Calendar](#)
- [Policies](#)



- [Canadian Association of Diagnostic Medical Sonographers](#)
- [National Certification Exam](#)
- Competency Profiles, Best Practice Guidelines, and more information on the profession



- [Health Science Association](#)
- 2014-2019 HSPBA Collective Agreements, wages & benefits



- [WorkBC, Medical Sonographers \(NOC 3216\)](#)
- Future job prospects in BC by region through 2025



Questions?

[Click here for FAQs](#) about the Sonography Program
and our response to COVID-19



NEXT STEPS

Completing this Info Session is a pre-requisite for entry into to Sonography program.

Please complete the short survey with your information, to ensure we receive a record of your attendance.

[Click here to complete the survey,](#) or scan the QR code



Thank you!

We look forward to seeing you soon.

- School of Health and Human Services

FOR MORE INFORMATION:

General Admissions

Sonography Admissions Advisor, Sue James

Sonography Program Leader, Dustin Pendergast

admissions@camosun.ca

james@camosun.ca

PendergastDustin@camosun.ca

Phone: 250-370-3550

Phone: 250-370-4852

