

DIAGNOSTIC MEDICAL SONOGRAPHY

Program: SONO

Credential: Ontario College Advanced Diploma

Delivery: Full-time

Work Integrated Learning: 2 Clinical Placements

Length: 6 Semesters Duration: 3 Years Effective: Fall 2026 Location: Barrie

Description

Imagine yourself as a compassionate professional and a vital member of a cutting-edge healthcare field. The Diagnostic Medical Sonography program equips you with the knowledge, skills, and experience needed to excel in this rapidly advancing industry. Also known as ultrasound, diagnostic medical sonography utilizes high-frequency sound waves to assess the developing fetus, abdomen, pelvis, and blood vessels. Every patient presents unique needs, and as a student, you develop diagnostic problem-solving abilities and teamwork skills to provide exceptional care. Guided by experienced faculty, you build a strong foundation in anatomy, physiology, pathology, and quality sonographic imaging. Hands-on training in simulation labs prepares you for clinical placements in diverse healthcare settings. Throughout the program, emphasis is placed on interprofessional collaboration, patient safety, effective communication, and high standards of patient care, ensuring you are well-prepared to succeed as a Diagnostic Medical Sonographer.

Career Opportunities

Diagnostic Medical Sonographers commonly work in:

- · community and teaching hospitals
- · imaging centres
- · urgent care clinics
- · ultrasound system industries
- · education and research

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

- communicate professionally, ethically and collaboratively with patients, their families, and the healthcare team to foster an environment that encourages patient involvement in their own care;
- provide individualized patient care with professional conduct and judgment to ensure patient dignity, comfort, and safety;
- integrate available diagnostic data, patient medical history, and status to formulate sonographic scanning strategies;
- analyze sonographic data to provide a professional account of the findings for physician interpretation;
- adhere to established protocols and safety procedures to minimize risk and maintain a safe environment for patients and healthcare providers;

- perform quality control checks, including equipment maintenance and calibration, to optimize image quality and enhance diagnostic accuracy;
- perform patient assessments within the scope of recognized practice, roles and responsibilities and according to professional and regulatory bodies while acknowledging professional limitations, to produce diagnostic data;
- implement infection control practices and respond to the hygiene needs of the patient in accordance with legislation, regulations, and ethical guidelines;
- incorporate strategies for continual learning in diagnostic medical sonography to enhance practice and support optimal patient care;
- assess information to adapt scanning techniques in real-time to capture optimal diagnostic images in response to patient conditions;
- maintain accurate patient records to support clinical decision-making and ensure compliance with ministry guidelines and professional standards.

External Recognition

Upon completion of this program and pending award of an accreditation status by Accreditation Canada's EQual program, graduates are eligible to write the Sonography Canada certification exams. Upon successful completion of these exams, students are qualified to register with the College of Medical Radiation and Imaging Technologists of Ontario (CMRITO) as a Diagnostic Medical Sonographer and work in a variety of settings.

Program Progression

The following reflects the planned progression for full-time offerings of the program.

Fall Intake

- · Sem 1: Fall 2026
- Sem 2: Winter 2027
- Sem 3: Summer 2027
- Sem 4: Fall 2027
- Sem 5: Winter 2028
- Sem 6: Summer 2028

Admission Requirements

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status
- · Grade 12 English (C or U)
- Grade 12 Mathematics (C, M or U)
- Grade 11 or 12 Biology (C or U)
- · Grade 11 or 12 Physics (C or U)

Admission requirements may be met by completing Georgian College's Per-Health Sciences Pathway to Advanced Diplomas and Degrees certificate (https://www.georgiancollege.ca/academics/programs/pre-health-sciences/), or equivalent courses from Academic Upgrading programs offered by Colleges across Ontario.

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete



details refer to: www.georgiancollege.ca/admissions/academic-regulations//

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit for Prior Learning website for details:

www.georgiancollege.ca/admissions/credit-transfer/ (https://www.georgiancollege.ca/admissions/credit-transfer/)

Selection Process

Grade 11 or 12 Chemistry is recommended, in addition to the required Biology to support students in this science-based program.

This is a highly competitive program. Applicants will be assessed and ranked based on academic grades. The overall minimum GPA is determined annually.

Criminal Reference/Vulnerable Sector Check

Placement agencies require an up-to-date clear criminal reference check and vulnerable sector check prior to going out on placement. Students should obtain their criminal reference three months prior to placement; checks conducted earlier may not be considered current. As some jurisdictions require longer lead-time for processing, please check with the program coordinator to ensure you allow for sufficient turn-around time. It is the student's responsibility to provide the completed document prior to placement start.

NOTE: Individuals who have been charged or convicted criminally and not pardoned will be prohibited from proceeding to a clinical or work placement.

Graduation Requirements

25 Program Courses

2 Clinical Placements

1 Communications Course

3 General Education Courses

Graduation Eligibility

To graduate from this program, the passing weighted average for promotion through each semester, from year to year, and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester unless otherwise stated on the course outline.

Program Tracking

The following reflects the planned course sequence for full-time offerings of the Fall intake of the program. Where more than one intake is offered contact the program co-ordinator for the program tracking.

Semester 1		Hours
Program Courses		
BIOL 1050	Anatomy and Physiology for Medical Imaging 1	42
IMAG 1000	Patient Care and Management 1	42
IMAG 1001	Ultrasound of the Abdomen and Superficial Structures 1	56
IMAG 1002	Ultrasound Physics and Instrumentation 1	42
IMAG 1003	Ultrasound Skills Lab 1	28

Communication	s Course	
	from the Communications list during registration.	42
General Education		
Select 1 course	from the General Education list during registration.	42
	Hours	294
Semester 2		
Program Course	es	
BIOL 1051	Anatomy and Physiology for Medical Imaging 2	42
IMAG 1004	Patient Care and Management 2	42
IMAG 1005	Professional Practice	28
IMAG 1006	Ultrasound of the Abdomen and Superficial Structures 2	56
IMAG 1007	Ultrasound Physics and Instrumentation 2	28
IMAG 1008	Ultrasound Skills Lab 2	28
IMAG 1009	Ultrasound of the Reproductive System 1	42
General Education	on Course	
Select 1 course	from the General Education list during registration.	42
	Hours	308
Semester 3		
Program Course	es	
BIOL 2031	Pathology for Medical Imaging	42
IMAG 2000	Ultrasound of the Abdomen and Superficial Structures 3	42
IMAG 2001	Ultrasound Physics and Instrumentation 3	28
IMAG 2002	Obstetrical Ultrasound 1	56
IMAG 2003	Ultrasound Skills Lab 3	42
REAS 2004	Research Principles for Medical Imaging	42
General Education	on Course	
Select 1 course	from the General Education list during registration.	42
	Hours	294
Semester 4		
Program Course	es	
IMAG 2004	Ultrasound of the Abdomen and Superficial Structures 4	42
IMAG 2005	Obstetrical Ultrasound 2	70
IMAG 2006	Ultrasound Skills Lab 4	42
IMAG 2007	Ultrasound of the Reproductive System 2	42
IMAG 2008	Vascular Ultrasound	42
IMAG 2009	Special Topics in Ultrasound	42
	Hours	280
Semester 5		
Clinical Placeme	ent	
IMAG 3000	Sonography Clinical Practicum 1	550
	Hours	550
Semester 6		
Program Course		
IMAG 3001	Sonography Consolidation	28
Clinical Placeme	ent	
IMAG 3002	Sonography Clinical Practicum 2	550
	Hours	578
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Graduation Window

Total Hours

Students unable to adhere to the program duration of three years (as stated above) may take a maximum of six years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

Disclaimer. The information in this document is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs.

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Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.