

# DIAGNOSTIC MEDICAL SONOGRAPHY - ULTRASOUND (USPG)

## Ontario College Advanced Diploma | 6 semesters | Barrydowne

Cambrian's accredited Diagnostic Medical Sonography – Ultrasound program will prepare you for entry-level roles in hospitals, medical clinics, and private industry. You'll enjoy wide ranging job opportunities, a higher than average salary, and a career where you'll be making a difference in the lives of patients.

You will learn to safely use scanning equipment and imaging techniques to produce images of a body part or system, skills that can be required throughout the different departments of a clinical facility including the trauma unit, operating room, and intensive care area, as well as the diagnostic imaging department.

To graduate from this program, you must demonstrate scanning abilities, strong communication skills, and critical thinking skills at a level of competency defined by Sonography Canada and within the timelines set out in the curriculum. Also, you will be expected to rotate to one or more sites during your placement component.

### Program Highlights

- 3 years – 6 semesters
- 3 placements
- One of only four colleges in Ontario to offer this program
- Hands-on experience working on the latest equipment in Cambrian's ultrasound lab and three hospitals
- Grads are eligible to apply to write Sonography Canada's Certification Exam, CARDUP (Canadian Association of Registered Diagnostic Ultrasound Professionals), and/or the American Registered Diagnostic Medical Sonography (ARDMS) certification examinations.

### Fieldwork/Placement

You must participate in a relevant clinical experience during the program. Clinical experience is gained at a variety of affiliate hospitals throughout Canada. You must be financially prepared to relocate and support yourself away from Sudbury for the clinical semesters. You will be assigned a clinical site with rotations and additional clinical sites arranged at the discretion of the clinical partners' clinical coordinator.

Success in the clinical placement component is mandatory for success in the program. Failure to demonstrate scanning competency at clinical placement will result in a failure and exit from the program.

### Accreditation

Cambrian's program is accredited by Accreditation Canada and their affiliate Health Standards Organization (HSO).

### Registration to Practice

Upon successful completion of the program, you will have met all of the competencies in the National Competency Profiles established under Sonography Canada, and thereby be eligible to write the CARDUP (Canadian Association of Registered Ultrasound Professionals) and/or ARDMS (American Registered Diagnostic Medical Sonography)

certification examinations. As a graduate, you will also have the opportunity to become a member of several professional diagnostic ultrasound associations.

Sonography Canada is the professional certification body for diagnostic medical sonography in Canada. Sonography Canada develops, maintains, and delivers the national certification examinations for sonography in Canada. You must complete the clinical assessment examination while in clinical placement.

Sonography Canada is the amalgamation of the Canadian Association of Ultrasound Professionals (CARDUP) and the Canadian Society of Diagnostic Medical Sonographers (CSDMS) is the professional services society for diagnostic sonographers in Canada. Sonography Canada supplies professional services and liability coverage to Canadian sonographers including the Continuing Professional Development program which manages ongoing professional education for members.

The College of Medical Radiation Technologists of Ontario (CMRTO) is responsible for regulating medical diagnostic sonographers as of January 2018. Cambrian College of Applied Arts and Technology (General Sonography) education program has been approved as one of the accredited programs for sonography.

### Limited Enrolment

Please note that possession of the requirements does not guarantee admission. If the number of qualified applicants exceeds the number of places available in the program, the College reserves the right to select from among those applicants. All students applying by February 1 will be given equal consideration. Preference will be given to Ontario residents. Please see the Limited Enrolment F.A.Q.'s on our website under "How to Apply (<http://cambriancollege.ca/apply>)" for further details.

### Quick Links

How to Apply (<http://cambriancollege.ca/apply>)

Health Sciences, Nursing, and Emergency Services (<http://cambriancollege.ca/field-of-study/health-sciences-nursing-emergency-services>)

### Admission Requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C), (U), or (M)
- Any grade 12 mathematics (C), (U), or (M)
- Any grade 11 or 12 biology (C), (U), or (M)
- Any grade 11 or 12 physics (C), (U)

Please note: A minimum of 70% is required in each prerequisite courses

Recommended:

- computer competency in relevant software

Note: Cambrian College's Pre-Health Sciences Pathway to Advanced Diplomas and Degrees (PHPG) program is the designated preferred preparatory program for admission to Cambrian College's limited enrolment Health Sciences programs. Limited enrolment programs are identified within the detailed program descriptions. The minimum GPA and grades required for successful admission will be determined by the quality and quantity of the applicant pool.

## Additional Requirements

- Fit mask testing prior to clinical placement
- Current WHMIS training certificate prior to clinical placement
- Current Basic Cardiac Life Support certificate prior to clinical placement
- Immunization in accordance to the Ontario Hospitals Act

**APPLY NOW!** (<http://www.ontariocolleges.ca/apply>)

## Program Delivery

### 2018-2019

This program will be delivered in the following terms:

#### Fall Term Start

1. **SEMESTER 1** Fall 2018
2. **SEMESTER 2** Winter 2019
3. **SEMESTER 3** Fall 2019
4. **SEMESTER 4** Winter 2020
5. **SEMESTER 5** Spring 2020
6. **SEMESTER 6** Fall 2020

For specific term start/end dates and other key dates/deadlines, please see the Academic Schedule (<http://cambriancollege.ca/apply/how-to-apply/academic-schedule>) on our website.

## Program of Study

Semester 1		Credits
ENG 1121	Research Writing/Health Sciences	3
USP 1001	Sonography Lab Practice I	2
USP 1106	Principles of Sonographic Physics I	4
USP 1110	Fundamentals of Scanning	3
BIO 1019	Cross-Sectional Anatomy	3
USP 1000	Abdominal Scanning	8
The following General Education course:		3
FIT 1115	Health Wellness	3
Term Credits:		26
<b>Semester 2</b>		
BIO 1250	Sonographic Anatomy Physiology II	3
HEA 1022	Canadian Health Care	3
USP 1003	Sonography Lab Practice II	2
USP 1007	Obstetrics and Gynecology I	4
USP 1008	Vascular Scanning	4
USP 1206	Principles of Sonographic Physics II	4
One of the following General Education courses:		3
GER 1200	Introduction To Gerontology	3
PSY 1125	Positive Psychology	3
Term Credits:		23
<b>Semester 3</b>		
LAW 1001	Health Legislation Prof. Practice	3
USP 1005	Vascular Scanning II	3
USP 1006	Sonography Lab Practice III	2
USP 2105	Principles/Sonographic Physics III	2
USP 2131	Obstetrics and Gynecology II	4

USP 2141	Musculoskeletal Sonography	3
USP 2145	Neurosonography	2
One of the following General Education courses:		3
SCI 1000	Issues and Ethics in Science	3
SSC 1002	Thinking, Reasoning, Relating	3
Term Credits:		22
<b>Semester 4</b>		
USP 1009	Clinical Practicum I	26
USP 2240	Pathology and Anomalies I	1
Term Credits:		27
<b>Semester 5</b>		
USP 1010	Clinical Practicum II	26
USP 3140	Pathology Anomalies II	1
Term Credits:		27
<b>Semester 6</b>		
USP 1011	Clinical Practicum III	26
USP 3240	Pathology Anomalies III	1
USP 3250	Comprehensive Exam	1
Term Credits:		28
Total Credits:		153

## Fees

### Tuition and Ancillary Fees

Please see our fees page (<http://cambriancollege.ca/fees>) for the breakdown of tuition and mandatory ancillary fees by program and semester for both domestic and international students

### Books & Supplies

The cost of books and supplies for Year 1 is approximately \$1,500. This is the best information available at the time of publishing to the website and is subject to change.

## Graduate Options

### Employment Opportunities

Graduates are employed in hospitals, medical clinics, and private industry.

### College/University Degree Opportunities

Graduates from this program may continue their studies at college/university and may receive credit for their prior College education.

Refer to College/University Agreements (<http://www.cambriancollege.ca/agreements>) for further information.

## Contacts

### Sheila Geraghty Grech

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