

DIAGNOSTIC MEDICAL SONOGRAPHY WITH A CONCENTRATION IN GENERAL SONOGRAPHY, ASSOCIATE OF APPLIED SCIENCE



The Associate of Applied Science degree prepares the student for an entry-level position as a Diagnostic Medical Sonographer for employment in hospitals and other health care agencies. The Diagnostic Medical Sonographer produces, evaluates, and correlates ultrasound images and related data. Sonographers provide a summary of their technical findings to the qualified interpreting physician to aid in rendering a medical decision. The curriculum consists of on-campus didactic and lab instruction, as well as off-campus clinical applications at our affiliated health care institutions. The program offers specialty training in abdominal sonography and obstetrical/gynecological sonography. The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Upon completion of the Diagnostic Medical Sonography program, graduates are eligible to apply for the national credentialing exams by the American Registry of Diagnostic Medical Sonography (ARDMS) in the exam offerings of abdominal and Ob/Gyn sonography.

Final acceptance into the Diagnostic Medical Sonography program is contingent upon the results of the required background check.

Program contact: Learn more

Learn more about how certificate credits apply to the related degree.

Related Degrees and Certificates

- Diagnostic Medical Sonography, Associate of Applied Science

Program Admissions Requirements

The DMS program application is online and found on the program web page at <http://www.tri-c.edu/sonography> along with comprehensive admissions and program information. Please refer to the website for application timelines.

- GPA calculated using only the Tri-C specific admission course credit hours listed.
- Verification of having completed a 8-16 hour observation where the candidate "shadows" an ARDMS-credentialed sonographer in the hospital environment. 50% of the exams observed should be on in-

patients. See the DMS application packet for details and the required form.

- Non-native English speaking applicants: Admission into Cuyahoga Community College is premised on a complete and accurate initial application to the College, including, if applicable, proof of English Language Proficiency Requirements for admission as indicated on the English Language Proficiency Requirements for Admissions to the College, and available on the web at: <http://www.tri-c.edu/get-started/international-students/english-language-proficiency-requirements-for-admission.html>.

To be accepted into any selective admission programs, students must successfully complete English as a Second Language (ESL) course/s, as referenced above, if deemed necessary by the College at the time of enrollment. Admission is conditioned upon achieving the necessary grade point average (GPA), English language proficiency requirements and any specific pre-requisite courses, and by meeting program accreditation or licensing requirements as evidenced in the Program Handbook for the specific program.

- Complete the following Program Admissions requirements with a "C" grade or higher in each:

Code	Title	Credit Hours
BIO-2331	Anatomy and Physiology I ^{1,2}	4
BIO-2341	Anatomy and Physiology II ¹	4
DMS-1071	Concepts of Physics in Diagnostic Sonography ³	2
DMS-1303	Introduction to Sonography ³	2
DMS-1320	Introduction to Sonographic Scanning ³	1
DMS-1351	Patient Care Skills	1
Select one of the following:		3-4
MATH-1410	Elementary Probability and Statistics I ⁴	
MATH-1530	College Algebra (or higher) ⁴	
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	

- ¹ Minimum GPA 3.0 required for BIO-2331 & BIO-2341 (total 8 credits).
- ² Requires appropriate score on Biology placement test or grade of "C" or higher in BIO-1100 to enroll in this course.
- ³ Minimum GPA 3.0 for DMS-1303, DMS-1320, and DMS-1071 (total 5 credits).
- ⁴ Requires appropriate placement score on math placement test or grade of "C" or higher in MATH-0965 to enroll in this course.

Other Information

- To improve from a previous attempt, only two of the admission courses may be repeated once. A "W" is counted as an attempt.
- Criminal background check required. Also see General Application Procedures for Health Careers.
- Applicant must submit evidence of good health by fulfilling health requirements of the DMS Program and verification of current CPR certification prior to clinical assignment. Complete information provided during the first semester of the Program.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Exhibit an awareness of continuity of care through effective, empathetic communication and interpersonal skills.
2. Display sensitivity to all aspects of diversity.
3. Seek and accept opportunities for improvement by being a team player that is confident, flexible, and passionate about what they do.
4. Exercise discretion, knowledge, and independent judgment in performing sonographic procedures, accessing medical information systems, and in seeking assistance.
5. Integrate pertinent patient history, supporting clinical data, and data obtained using ultrasound and related diagnostic technologies to provide a summary of findings to the physician.
6. Become a credentialed sonographer that continually educates oneself in sonography and in issues affecting the healthcare industry in recognition of the value of other modalities and professions.

Suggested Semester Sequence

Program Admissions Requirements		Semester	Credit Hours
BIO-2331	Anatomy and Physiology I ¹		4
BIO-2341	Anatomy and Physiology II		4
DMS-1071	Concepts of Physics in Diagnostic Sonography		2
DMS-1303	Introduction to Sonography		2
DMS-1320	Introduction to Sonographic Scanning		1
DMS-1351	Patient Care Skills		1
MATH-1410	Elementary Probability and Statistics I ²		3
Select one of the following:			3
ENG-1010	College Composition I		
ENG-101H	Honors College Composition I		
Credit Hours			20

First Semester

DMS-1311	Initial Sonographic Scanning		2
DMS-1401	Abdominal Sonography I		4
DMS-1500	Gynecologic and Obstetrical Sonography		4
Select one of the following:			3
PSY-1010	General Psychology		
PSY-101H	Honors General Psychology		
Credit Hours			13

Second Semester

DMS-1940	Field Experience I		1
DMS-2301	Intermediate Sonographic Scanning		2
DMS-2401	Abdominal Sonography II		4
DMS-2500	Obstetrical Sonography		4
PSY-1060	Cross-Cultural Competency for Health Care Providers		1
MA-1010	Introduction to Medical Terminology ³		2
Credit Hours			14

Summer Session

DMS-1950	Field Experience II		2
Select one of the following:			3

ENG-1020	College Composition II		
ENG-102H	Honors College Composition II		
HTEC-1110	Ethics for Health Care Professionals ⁴		1
Credit Hours			6

Third Semester

DMS-2350	Sonographic Instrument/Physics		3
DMS-2940	Field Experience III		3
DMS-2985	Physics Review		1
DMS-2991	Sonography Capstone		1
Credit Hours			8

Fourth Semester

DMS-2950	Field Experience IV		1
DMS-2981	Specialty Registry Review		1
DMS-xxxx	DMS Elective		1-2
Credit Hours			3-4
Total Credit Hours			64-65

- ¹ Requires appropriate placement score on Biology placement test or grade of "C" or higher in BIO-1100 to enroll in this course.
- ² MATH-1530 College Algebra or higher will be accepted in place of MATH-1410 Elementary Probability and Statistics I. Both MATH-1410 and MATH-1530 require appropriate placement score on Math placement test or a grade of "C" or higher in MATH-0965 to enroll.
- ³ MA-1020 Medical Terminology I will be accepted in place of MA-1010 Introduction to Medical Terminology.
- ⁴ PHIL-2050 Bioethics will be accepted in lieu of HTEC-1110 Ethics for Health Care Professionals.

Electives

Technical Electives

Select from the following courses to fulfill DMS elective option:

Code	Title	Credit Hours
DMS-1381	Cardiac Diagnostic Procedures	3
DMS-2330	Sonographic Pathology	3
DMS-2450	Breast Sonography	2
DMS-2650	Pediatric Cardiac Sonography	3
DMS-2750	Principles of Vascular Imaging for Abdomen and Cardiac Sonographers	3
DMS-2960	Supplemental Field Experience	2
DMS-2983	Supplemental Speciality Registry Review	1