

# Diagnostic Medical Sonography

## *Applied Associate Degree Programs*



### ***About the Profession***

Diagnostic Medical Sonographers are allied health professionals who use specialized equipment to generate images used for assessing and diagnosing various medical conditions. Sonographers are highly skilled professionals who are well versed in human anatomy and physiology. They must work closely with physicians and other health care providers and utilize critical thinking skills to discover potential pathology and disease. Sonographers are routinely involved in direct patient contact and deal with individuals ranging from healthy to critically ill. Sonographers provide patient services using diagnostic techniques under the supervision of a licensed doctor of medicine or osteopathy.

A successful sonographer is a knowledgeable, resourceful and caring individual who serves in the best interest of the patient. A sonographer must be committed to life-long learning to maintain competency, knowledge and expertise in a rapidly growing health care profession.

### ***About the Program***

The goal of the program is to prepare competent entry-level cardiovascular and general imaging sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Students applying to the DMS program will be governed under the process outlined in this information pamphlet. Approximately 24 students are admitted annually as a cohort class:

12 *Cardiovascular degree seeking* and 12 *General Imaging degree seeking candidates*. Program admission is a two-tiered process: students are admitted to the college as a *pre-DMS level* student and must complete required prerequisite courses in order to apply for selective enrollment for the *DMS core level*. Core level applications are accepted during the spring semester. Applicants will be notified of acceptance during the summer semester. Core level courses begin fall semester.

### ***Program Accreditation***

The DMS program at *Cincinnati State Technical and Community College* is accredited by the *Commission on Accreditation of Allied Health Education programs (CAAHEP)* upon recommendation from the *Joint Review Committee for Diagnostic Medical Sonography (JRCDMS)*.

### ***Program Degrees***

Cincinnati State offers degrees in two sonography specialty areas: **General Imaging and Cardiovascular Sonography**

General Imaging sonography involves demonstration and evaluation of abdominal structures, superficial structures, pelvic structures and fetal structures. Cardiovascular sonography involves the demonstration and evaluation of structures within the heart and vascular systems.

## ***Starting Salaries***

New graduates average wage is \$36 per hour or \$73,000 per year in the Cincinnati, OH area. This may vary dependent upon the geographic area.

## ***Admission to the Program***

Students applying for core level in **Spring 2024** must complete ALL foundational courses and the program prerequisites listed below prior to applying for selective enrollment for core level.

### **PREREQUISITE COURSES:\***

ENG 101	English Composition 1
BIO 151	Anatomy & Physiology 1
BIO 152	Anatomy & Physiology 2
MAT 161	College Algebra
PHY 110	Health Physics
DMS 100	Survey of Sonography
MCH 138	Patient Care Skills
MCH 104	Comprehensive Medical Terminology

*All prerequisite and curriculum science courses must be completed  $\leq$  5 years from the date of admission to the core program earning a C or higher. Some of the above courses may have additional prerequisite course requirements. Please check the course listing prior to registration.*

Transfer students must have transcripts sent to the Office of Admissions to receive applicable transfer credit.

Due to the high demand of the program, you are strongly encouraged to work closely with the appropriate advisor to assure a smooth transition to the core level of the program.

## ***The Clinical Experience***

DMS core curriculum courses and the clinical experience begins following progression acceptance. The program is intensive and requires a great amount of study. The clinical portion of the DMS curriculum level is a full time (40 hours a week), day time program. There may be occasional evening courses as well. Therefore, most students find it difficult to

work full time while in the clinical portion of the program. If a student must work, we recommend working no more than 16 hours/week while in the curriculum DMS courses.

## ***Program Advisors***

All admitted students will be advised by an academic advisor prior to seeing a program advisor or program chair. Please make an appointment prior to registration in order to know which classes you should take before beginning your academic career at Cincinnati State College.

Students may be required to complete academic foundations-level (developmental) courses if you need additional preparation in math or language skills before entering their program of study. Typically, students' complete foundations-level courses prior to taking core courses in their degree program. Once you complete your Academic Foundations (AF) requirements and are ready to start the prerequisite courses, you may make an appointment with a DMS Program Advisor by emailing [hpsadvising@cincinnatiastate.edu](mailto:hpsadvising@cincinnatiastate.edu) or calling **513-569-1670** Monday – Friday during normal business hours.

### **Program Chair - Interim**

Jackie Turner MS, RDCS, RVT  
[Jackie.Turner@cincinnatiastate.edu](mailto:Jackie.Turner@cincinnatiastate.edu)

## ***Additional Information***

Additional information about the Diagnostic Medical Sonography program may be obtained at [www.Cincinnatiastate.edu](http://www.Cincinnatiastate.edu) under the Health and Public Safety Division. Information about the profession may be found at the following websites: <http://www.sdms.org/>, <http://asecho.org/>, <http://www.svunet.org> and <http://www.ardms.org/> We recommend researching both programs to determine which specialty area is suitable to your personality.

## Requirements for Selection

Admission to the sonography programs is a two-tiered process and is based on the student's readiness for progression. Acceptance to the college as a pre-DMS student and completion of required courses *does not guarantee or constitute admittance into the DMS curriculum program*. Selection will be based on a point system and clinical placement availability. Applicants should follow the selective enrollment process outlined in the college literature and on the college website.

- All prerequisite courses and Curriculum College level science courses must be completed within **5 years** of acceptance to the CORE program with a C or better.
- Once you have satisfactorily completed the pre-DMS course prerequisites, you will be eligible to apply for the Core Level of the program. Currently, **selective enrollment occurs** once per academic year during the **spring semester**.
- While waiting for selection, you must **maintain an active status** with the college and as a DMS student in order to be eligible for progression (registration of 1 course per academic year).
- **Drug screenings** may be required prior to and/or after core level acceptance. Students must also have a current **CPR certification** during their clinical rotations.
- **Criminal Background Check** initial clearance and follow-up checks as needed are at the student's expense

## Mandatory Requirements to Apply for Core Level Include:

1. Declared DMS Program major: DMSC or DMSG. Students must have an active status in order to apply to the program.
2. Mandatory **Information Session** or **Intent to Apply** Participation Certificate
3. **2.75 or higher Overall GPA** at time of progression
  - *Less than 12 CState cr. hrs. will include Cincinnati State and transfer institution(s) overall GPA's averaged together*
  - *Transfer courses applicable to progression that have been repeated for a passing or better grade will be considered as repeat courses.*
4. Completion of ALL prerequisite level (**Pre-DMS**) courses with a C or higher
  - Any additional curriculum courses taken prior to progression must also have a grade C or higher
5. **2.75 or higher Prerequisite GPA** at time of progression
6. The **TEAS V- AH** Retention Assessment (The Test of Essential Academic Skills V for Allied Health)
7. **Criminal Background Check** Receipt submission

## Additional Criteria towards Application Points:

- Scan Lab Observation Participation
- Healthcare Education (degree or certificate)
- Patient Care Experience (within 5 years)

## We strongly encourage each student to do the following prior to applying to core level:

- Read the information packet and other important program information in the **DMS Organization** (found under the College Community section of Blackboard: [My Organizations:DMS](#))
- Schedule **TEAS V AH** Assessment ([link to register on college website](#)). Study Guide Information: Available in the CState bookstore
- Each student is responsible to keep in touch with a program advisor to avoid any delays or misunderstandings concerning selection into the core level DMS courses.
- Meet with a **Financial Aid Advisor** to create a financial plan and discuss options. Walk-in appointments are accepted or you may call 513.569.1530.

### Spring 2023 Application

#### Acceptance Dates:

**April 1– May 19, 2024**

*Students should meet with their Academic Advisor to discuss progression eligibility*

## 2023-2024 DMS CURRICULUM

Students planning to apply for selective admission will be governed under this curriculum. All information is subject to change and students are strongly encouraged to attend a program information session AND to work with program advisor to ensure they are taking the correct sequence of courses.

	Academic Year	Course Number	Course Title	Lec-Lab-Cr hrs	
<b>LEVEL I: PRE-DMS</b>	Year 1 Fall Semester	FYE XXX	First year Experience Elective	1-0-1	
		ENG 101	English Composition 1	3-0-3	
		BIO 151	Anatomy & Physiology 1	3-2-4	
		MAT 161	College Algebra for DMS	3-2-4	
		MCH 104	Comprehensive Medical Terminology	3-0-3	
					<b>15 credit hours</b>
	Year 1 Spring Semester	BIO 152	Anatomy & Physiology 2	3-2-4	
		DMS 100	Survey of Sonography	2-2-3	
		MCH 13X	Multi Competency Healthcare Elective (138 or 130)	2-0-2	
		PHY 110	Health Physics	2-2-3	
				<b>12 credit hours</b>	
<b>Students Apply for Selective Admission into the Core Level of the DMS Programs</b>					
	Year 2 Fall Semester	DMS 111	Sonographic Principles and Instrumentations 1	3-0-3	
		DMSX 120	Introduction to Sonography	3-0-3	
		DMSX 121	Sonography Scan Lab 1	0-6-2	
		DMSX# 110	DMS Specialty Elective	1-2-2	
		ENG 10X	English Elective (102,103,or 104)	3-0-3	
					<b>13 credit hours</b>
	Year 2 Spring Semester	DMS 112	Sonographic Principles and Instrumentations 2	2-0-2	
		DMSX 122	Sonography Scan Lab 2	0-6-2	
		DMSX 131	Sonography 1 Specialty A	3-0-3	
		DMSX 141	Sonography 1 Specialty B	3-0-3	
		PSY 110	Introduction to Psychology	3-0-3	
					<b>13 credit hours</b>
	Year 2 Summer Semester	DMSX 281	Sonography Internship 1	0-24-1	
		DMSX 223	Sonography San Lab 3	0-3-1	
					<b>2 credit hours</b>
	Year 3 Fall Semester	DMSX 282	Sonography Internship 2	0-24-1	
		DMSX 224	Sonography Scan Lab 4	0-4-2	
		DMSX 232	Sonography 2 Specialty A	2-0-2	
		DMSX 242	Sonography 2 Specialty B	2-0-2	
					<b>7 credit hours</b>
	Year 3 Spring Semester	DMSX 283	Sonography Internship 3	0-32-2	
		DMSX 250	Sonography Seminar	1-2-2	
					<b>4 credit hours</b>
				TOTAL PROGRAM	<b>66 CREDIT HOURS</b>

\*Specialty A for the CV program is Vascular Ultrasound and Specialty B is Echocardiography

\*Specialty A for the GI program is Abdominal Ultrasound and specialty B is OB/Gyn Ultrasound

#DMSX 110 varies for each program

All information including curriculum and selective admissions requirements are subject to change due to accreditation, state or other mandates. Students are strongly encouraged to attend a program information session AND to work with a program advisor to ensure they are taking the correct sequence of courses.