



## **ASSOCIATE OF APPLIED SCIENCE SCIENCE IN DIAGNOSTIC MEDICAL SONOGRAPHY (DMS)**

**CIP Code: 51-0910**

### **Program Mission**

At Stellar Career College, we're committed to nurturing the next generation of ultrasound specialists. Associate Degree in Diagnostic Medical Sonography (DMS) offers a unique mix of virtual learning and clinical practical expertise. This course equips students with hands-on training regarding operating the ultrasound machine, setting frequencies, and extracting and saving test results.

Furthermore, Associate of Applied Science Degree in Diagnostic Medical Sonography will prepare you in accordance with the Quality Control (QC) standards, legal obligations, and patient safety protocols. It will position you at an entry-level into medical imaging fields where you can assist surgeons and physicians as specialized sonographers.

### **Program Description**

Diagnostic Medical Sonography (DMS), also known as Ultrasound, is a powerful medical imaging technique that uses sound waves to generate dynamic and diagnostic pictures of the human body. Diagnostic Medical Sonography is performed by attaching a transducer with ultrasound machine that transmits high-frequency sound waves to the human body. The under-observation human body part then reflects these waves, which emerge as a clear picture of diagnoses on ultrasound machine's screens. DMS identifies cysts, tumors, obstructions, or infections within different organs, tissues, and muscles.

As a graduate of Associate Degree in Diagnostic Medical Sonography (DMS), you will be equipped with complete learning of all the steps, processes, and courses of action involved in performing ultrasound.

Associates Degree in Diagnostic Medical Sonography follows a hybrid mode. In addition to patient care, exam techniques, and medical ethics learning through online and virtual

technologies, you will gain real-world clinical practical experience and a chance to participate in Capstone Project at affiliated clients' sites.

## Program Details

### **Course Duration**

15 - 21 Months

### **Quarter Credit Hours**

90

## Program Curriculum

- **Biology and DMS Courses** (67.5 Quarter Credit Hours)
- **General Education Courses** (22.5 Quarter Credit Hours)

## Program Learning Outcomes

The purpose of associate degree in ultrasound technology in Indiana is to equip you with basic and fundamental knowledge of conducting medical imaging procedures. Additionally, this program will also offer real-world clinical experience.

The tutees of Associate Degree in Diagnostic Medical Sonography (DMS) will:

- Acquire basic introduction to accreditation bodies and compliance standards
- Understand hardware components and functioning of ultrasound machines
- Learn to operate database and enter patient information in a pattern
- Learn how to modify the depth measurement according to the test
- Understand demonstration of indicator orientation
- Learn how to fine-tune the frequency of machines
- Understand how to position patients and ensure their comfortability
- Gain an understanding of how to save, access, and organize test images
- Interpret and establish objective criteria for accurate testing
- Develop understanding of ultrasound quality Control Standards (QC)

## Program Career Opportunity

At Stellar Career College, the Associate Degree in Diagnostic Medical Sonography opens a wide array of opportunities for students seeking placement within the healthcare sector. The potential job possibilities for graduates of Associate Degree in MRI Technology include, but are not limited to, the following:

1. Diagnostic Medical Sonography Clinical Assistant
2. Diagnostic Medical Sonography Clinical Director
3. Diagnostic Medical Sonographic Sr

4. Ultrasound Technologist
5. Ultrasound Specialist
6. Multi-Modality Radiology Supervisor- Full Time
7. Echo Vascular Sonographer
8. PD-Ultrasound Technician - \*\*Langone Orthopedic Center\*\*
9. Technologist-Radiology - Clinic - Imaging
10. Cardiovascular Technician
11. Pediatric Echo Sonographer

## Program Completion

An associate degree will be awarded to those students who will successfully complete all required courses as per college's Satisfactory Academic Requirements and fulfill their financial obligation towards the college. To become eligible to challenge the national certification exam in Radiology through ARRT, students must complete the following requirements:

- Complete Stellar Career College's ARRT-recognized educational program in Sonography
- Must demonstrate competency in formal classroom education (didactic coursework), and program's clinical requirements.
- Complete an associate (or higher) degree, in any subject, from an educational institution accredited by an agency ARRT recognizes. You may earn the degree at any time—before, after, or while you complete an educational program in your discipline

## ARRT Obligations

ARRT enforces high standards of ethics and professional conduct. Students must comply with everything in the ARRT Standards of Ethics, including the Rules of Ethics. You must notify ARRT of any ethics violations within 30 calendar days of their occurrence. Applicants who don't follow these rules might become ineligible. Several types of misconduct, charges, and convictions may violate ARRT's Rules of Ethics. For further details on this matter, please refer to ARRT's handbook, which is available at [arrrt.org](http://arrrt.org).

## Program Format

The College will offer this program using the Hybrid format of instruction delivery. Didactic courses will be taught using online and virtual technologies, while laboratory courses will be offered using virtual technologies and/or on-site format of instruction delivery. The students will complete required clinical hours and competencies at their respective clinical sites.

## Program Certification

Graduates who meet additional requirements of the credentialing agency, including but not limited to ethics requirements, will be eligible to challenge the national certification exam to become certified by passing the credentialing examination.