

**Diagnostic Medical Sonographer (DMS) Training Program**  
**CIP Code: 51-0910**

**Program Description:**

The Diagnostic Medical Sonography (DMS), also called ultrasound, is a diagnostic modality used for medical imaging procedures. It is a powerful tool that can offer a wealth of information about the human body. DMS is performed by using a specialized scanner called transducer which is connected with the ultrasound machine. The transducer, after attaching to the skin, produces high frequency sound waves which are transmitted into the human body. These ultrasound waves reflect from organs, body fluids & different tissues densities to the transducer. From transducer the sound waves are then transformed into images on the screen of ultrasound machine. These ultrasound images provide valuable information for diagnosing and treating variety of diseases. It also helps in observing and visualizing the condition & behavior of the fetus in utero (before birth). Therefore ultrasound has become the most widely used imaging modality in modern medicine and it will continue to expand. The DMS Program offers an in-depth explanation of how DMS works.

**Program Objectives:**

- Learn how to operate the machine
- Learn how to enter patient information
- Learn how to adjust depth measurement
- Learn how to adjust frequency
- Learn how to demonstrate indicator orientation
- Learn how to save images
- Learn how to establish objective criteria
- Learn how to position the patient for the specific test
- Learn the basic introduction to accreditation bodies
- Learn the standards for ultrasound QC (quality control)

**Program Duration:**

15 months

**Clock Hours:**

1460

**Program Curriculum:**

**BIO101 Basic Medical Terminology**

**BIO 102 Human Anatomy and Physiology I**

**BIO103 Fundamentals of Pharmacology**

**BIO 104 Healthcare Laws and Ethics**

**BIO 105 Patient Care in Imaging**

**BIO 106 Human Anatomy and Physiology II**

**BIO 107 Imaging Pathology**

**DMS 111 Fundamentals of Sonography I**

**DMS 112 Sonographic Imaging I**

**DMS 113 Ultrasound Physics I**

**DMS 114 Fundamentals of Sonography II**

**DMS 115 Sonographic Imaging II**

**DMS 116 Ultrasound Physics II**

**DMS 121 Externship I**

**DMS 122 Externship II**

**Program Format:**

**The College will offer this program in on-ground format as well as in hybrid format in which students can take didactic/ theory courses using online delivery method.**

**Program Completion:**

A Certificate of Completion 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.

**Certification:**

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