

# Diagnostic Medical Sonography

Diagnostic Medical Sonographers:

Are highly skilled professionals that produce patient examinations using diagnostic ultrasound under the supervision of a doctor of medicine or osteopathy. Diagnostic medical sonography includes abdominal, obstetrical, vascular, cardiac, and various sub-specialties.

The sonographer:

- Provides patient care and education
- Obtains and reviews patient history
- Performs appropriate procedures recording anatomical, pathological, and/or physiological data for interpretation by a physician
- Records and processes sonographic data

## **Attractive Career Outlook**

According to the **United States Department of Labor**, employment of diagnostic medical sonographers is expected to increase by about 18 percent through 2018—faster than the average for all occupations. As the population continues to age, there will be an increasing demand for diagnostic imaging. Additional job growth is expected as healthcare providers increasingly utilize ultrasound imaging as a safer and more cost-effective alternative to radiological procedures. Ultrasound imaging technology is expected to evolve rapidly and spawn many new sonography procedures, enabling sonographers to scan and image areas of the body where ultrasound has not traditionally been used. Hospitals will remain the principal employer of diagnostic medical sonographers. However, employment is expected to grow more rapidly in offices of physicians and in medical and diagnostic laboratories. Job opportunities should be favorable; however, job opportunities will vary by geographic area. Sonographers willing to relocate will have the best job opportunities. Sonographers with multiple specialties or multiple credentials also will have good prospects.

## **Expert, Accessible Faculty**

Students regularly cite close collaboration with talented, dedicated faculty as one of their most meaningful experiences at Newman. As a student in diagnostic medical sonography, you will learn from accessible faculty members, having one or more American Registry for Diagnostic Medical Sonography (ARDMS) registry certifications, who bring many years of clinical experience to the classroom. Newman faculty members are more than just leaders in their field. They form strong relationships with students and take an active and personal role in their studies and progress.

## **Curriculum**

The ultrasound program curriculum leads to a Bachelor of Science in Sonography and the eligibility to take the following ARDMS (American Registry of Diagnostic Medical Sonographers) examinations; Physics, Abdomen, OB/GYN, and Vascular Technology.

The NU Sonography Program accepts **five** students each year. Instruction is 21 months long and includes lectures, demonstrations, laboratory exercises and clinical rotations through a variety of clinical facilities. You'll learn theory and principles in the classroom and laboratories, and apply this knowledge in clinical settings.

**To Apply (Application deadline is April 1 of the current year)**

**Admission to the program is separate from admission to Newman.** A student may apply to the program once the following requirements are met:

**The following options for consideration for admission to the Sonography program are requirements set forth by the American Registry for Diagnostic Medical Sonography (ARDMS) and Newman University:**

**Option #1:** Completion of the general education requirements (minimum overall GPA of 3.0) **or** Associate of Science/Art along with the required articulation courses **and** the following prerequisite courses; Medical Terminology, Human Anatomy and Physiology, and college Physics.

**(OR)**

**Option #2:** Bachelors' degree (minimum overall GPA of 3.0) along with the required articulation courses as well as the following prerequisite courses completed: Medical Terminology, Human Anatomy and Physiology, and college Physics.

**All coursework must be completed or in progress at program application.**

If the educational criteria are met and all forms are received, you will be contacted for an interview by the Sonography selection committee. Program selection is determined by points awarded for overall GPA, specific course grades, personal essay, resume, and the interview.

**Value for Your Money**

A Newman education is a powerful investment in your future. It offers exceptional quality at a reasonable cost. With Newman's low student-to-teacher ratio, you will have more interaction with faculty, leading to higher engagement and better academic outcomes. In addition, Newman's Financial Aid Office will work with you to explore all financial resources available, including grants, scholarships, student loans and work-study programs. Call 316-942-4291, ext. 2103.

**For More Information**

To learn more about this program contact April Starr, director and assistant professor of Diagnostic Medical Sonography in the School of Nursing and Allied Health, at 316-942-4291, ext 2154 or email [starr@newmanu.edu](mailto:starr@newmanu.edu). Call us Toll-Free at 877-NEWMANU (639-6268) or visit our web site at [www.newmanu.edu](http://www.newmanu.edu).

**\*Sonography Curriculum**

## **Pre-Sonography Requirements Completed;**

### **One of the following;**

- General education requirements (or Associate of Science/Art along with the required articulation courses)
- Bachelor's Degree (along with the required articulation courses)

### **And**

Anatomy and Physiology

Medical Terminology

Physics

### **Fall Semester - 1<sup>st</sup> Year**

SONO3033 Introduction and Scanning Techniques

SONO3003 Sectional Anatomy

SONO3044 Abdominal Imaging 1

SONO3002 Sonography Practicum 1

### **Spring Semester - 1<sup>st</sup> Year**

SONO3022 Clinical Sonography 1 (32 hours/week)

SONO4003 Obstetrics and Gynecology 1

SONO4023 Vascular Sonography 1

SONO3013 Ultrasound Theory and Instrumentation

SONO3011 Sonography Practicum 2

### **Summer Semester - 1<sup>st</sup> Year**

SONO3021 Cardio-anatomy

SONO3053 Echocardiography 1

SONO3104 Clinical Sonography 2 (32 hours/week)

SONO4011 Sonography Practicum 3

### **Fall Semester -2<sup>nd</sup> Year**

SONO4033 Abdominal Imaging 2

SONO4013 Obstetrics and Gynecology 2

SONO3063 Clinical Sonography 3 (32 hours/week)

SONO4031 Sonography Practicum 4

SONO4881 Advanced Topics in Ultrasound

### **Spring Semester- 2<sup>nd</sup> Year**

SONO4053 Vascular Sonography 2

SONO4063 Echocardiography 2

SONO4042 Registry Review

SONO4043 Advanced Ultrasound Theory and Bioeffects

SONO4054 Clinical Sonography 4 (32 hours/week)

\*Curriculum schedule is subject to change