

Adult Cardiac Diagnostic Medical Sonography (DMS)

DMS 104 Diagnostic Ultrasound Foundations

4 Hours

Prerequisites: Acceptance into Diagnostic Medical Sonography Program

5 hours weekly (3-2)

This course focuses on the study of clinical medicine pertinent to sonography. Care of the patient with emphasis placed on basic human needs, and age and cultural competency will be discussed. Interprofessional communication, both oral and written, physical assessment skills, obtaining clinical history and related symptoms, along with knowledge of other diagnostic testing pertinent to the ultrasound diagnosis will be introduced. Patient transport, including proper transfer skills, and patient positioning techniques will be reviewed and demonstrated. Current legal issues and medical ethics in sonography will be discussed along with an overview of the sonography practice, to include, professional organizations, introduction to ergonomics, infection control, medical asepsis, and quality control.

DMS 112 Cardiac EKG and Electrophysiology

1 Hour

Prerequisites: BIO 206, DMS 104

1 hour weekly (1-0)

This course is designed to prepare the student to become proficient in basic EKG interpretation of EKG tracings. This course covers principles of the cardiac conduction system, basic EKG applications, dysrhythmia recognition of atrial and ventricular rhythms and electrophysiology concepts. After completing this course, the

student must maintain updated health records per DMS Handbook.

15 hours weekly (0-15)

The clinical component of Cardiac Ultrasound Imaging II. This course is a supervised clinical experience that will cover cardiac scanning techniques and protocols with emphasis on color flow, cardiac Doppler, and two-dimensional and M-mode ultrasound scanning of the normal heart and introduction to abnormal cardiac pathology. This course is designed for the student to practice cardiac ultrasound techniques and observe a functioning ultrasound department.

DMS 230 Cardiac Seminar

2 Hours

Prerequisites: Concurrent enrollment with