

# DIAGNOSTIC MEDICAL SONOGRAPHY (DMS)

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## **DMS 111 Intro to Sonography (1 credit)**

This course will introduce the student to the basic concepts of ultrasound physics, knobology and function of the ultrasound machine. Cross-sectional anatomy will be introduced.

*Prerequisites:* CAS 113L (may be taken concurrently) or DMS 112 (may be taken concurrently) or VAS 112 (may be taken concurrently)

*Restrictions:* Enrollment is limited to students with a major in Cardiac Sonography, Diagnostic Medical Sonography or Vascular Sonography.

## **DMS 112 Abdominal Sonography I (3 credits)**

This course includes a review of normal anatomy and function of abdominal structures and an introduction to their ultrasound appearances.

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 113L Ultrasound Lab I (1 credit)**

This course will introduce the skills needed to perform sonograms of normal abdominal structures.

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 221 Ultrasound Physics (3 credits)**

This course will provide the student with a practical understanding of the principles of ultrasound physics as they apply to diagnostic medical imaging.

*Restrictions:* Enrollment is limited to students with a major in Cardiac Sonography, Diagnostic Medical Sonography or Vascular Sonography.

## **DMS 222 Abdominal Sonography II (2 credits)**

This course will prepare the student to recognize and describe abdominal pathology on a sonogram.

*Prerequisites:* DMS 112

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 223 Ob/Gyn Sonography I (3 credits)**

This course will prepare the student to perform sonograms of the normal pregnant and nonpregnant female pelvis. Didactic instruction includes a review of pelvic anatomy and an introduction to obstetrical imaging.

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 224 Ultrasound Clinical I (4 credits)**

This course will prepare the student to perform sonograms of both the pregnant and nonpregnant female pelvis and abdomen in the clinical setting.

*Prerequisites:* DMS 113L

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 225L Ultrasound Lab II (1 credit)**

This course will prepare the student to perform sonograms of the pregnant and nonpregnant female pelvis in a simulated clinical environment.

*Prerequisites:* DMS 113L

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 226 Ob/Gyn Sonography II (3 credits)**

This course will provide the student with an understanding of the abnormalities that may occur in the pregnant and non-pregnant female pelvis. Emphasis is given to etiology and significance of the abnormality as well as its sonographic appearance.

*Prerequisites:* DMS 223

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 227 Common Vascular Procedures (1 credit)**

This course will prepare the student to perform sonograms of extracranial arteries and veins of the extremities. Emphasis will include applying Doppler principles to imaging.

*Prerequisites:* DMS 111

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography or Vascular Sonography.

## **DMS 229L Ultrasound Lab III (1 credit)**

This course will prepare the student to perform sonograms of the thyroid gland, extracranial arteries and peripheral extremity veins in a simulated clinical setting.

*Prerequisites:* DMS 225L

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 230 Superficial Structures (2 credits)**

This course will prepare the student to perform sonograms on the following superficial structures: thyroid gland, breast, testicles, prostate and neonatal head.

*Prerequisites:* DMS 222

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 231 Ultrasound Seminar (2 credits)**

Students will prepare for entrance into Diagnostic Medical Sonography by exploring topics related to career development and continuing education. Guest lecturers from the field will provide insights into professional practice. Content review and mock registry testing will prepare students for the credentialing exams.

*Prerequisites:* DMS 222

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

## **DMS 233 US Clinical II (6 credits)**

This course will prepare the student to perform sonograms and further develop their scanning skills in the clinical setting. Imaging of the thyroid gland, breasts, testicles, carotid arteries, and peripheral extremity veins will be introduced.

*Prerequisites:* DMS 224

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

*Attributes:* Undergraduate

## **DMS 234 US Clinical III (4 credits)**

This course will provide continued clinical setting experience to perfect the student's scanning skills. The students will apply knowledge learned throughout the DMS Program to demonstrate clinical competency in specified sonographic procedures

*Prerequisites:* DMS 233

*Restrictions:* Enrollment is limited to students with a major in Diagnostic Medical Sonography.

*Attributes:* Undergraduate