

CARDIAC SONOGRAPHY (CAS)

CAS 113L Echo Lab I (1 credit)

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

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

CAS 206 Ultrasound Cardiac Anat & Phys (3 credits)

This course will prepare the student to recognize and describe the construction and dynamics of the cardiovascular system.

Prerequisites: (BIO 175 and (BIO 176 and (CAS 222 (may be taken concurrently) or VAS 235 (may be taken concurrently))

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

CAS 220 Cardiac Pathophysiology I (3 credits)

This course will prepare the student to recognize and describe ventricular and valvular pathologies and their ultrasound appearance.

Prerequisites: DMS 111

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

CAS 222 Echo Hemodynamics (1 credit)

This course will prepare the student to recognize and describe normal and abnormal cardiac hemodynamics and perform hemodynamic calculations.

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

Attributes: Undergraduate

CAS 223 Cardiac Pathophysiology II (3 credits)

This course will prepare the students to recognize and describe aortic, pericardial, and systemic cardiovascular pathologies with cardiac manifestations to include their ultrasound appearance.

Prerequisites: CAS 220

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

CAS 224 Echo Clinical I (4 credits)

This course will prepare the student to perform cardiac sonograms and develop their scanning skills in a clinical setting

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

Attributes: Undergraduate

CAS 225L Echo Lab II (1 credit)

This course will prepare the student to apply hemodynamics and pathology concepts to cardiac sonograms while developing scanning skills.

Prerequisites: CAS 113L

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

Attributes: Undergraduate

CAS 226 Adv Echo & Therapeutic Techniq (1 credit)

This course will provide the student with an understanding of advanced cardiac techniques and cardiac procedures

Prerequisites: CAS 225

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

CAS 227 Introduction to Pediatric Echo (2 credits)

This course will provide the student with an understanding of the embryonic formation of the heart and abnormalities that occur during heart development

Prerequisites: CAS 206

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

CAS 228 Echo Clinical II (6 credits)

This course will prepare the student to perform a 2D and Doppler cardiac sonogram and further develop their scanning skills in a clinical setting.

CAS 229L Echo Lab III (1 credit)

This course will prepare students to apply advanced measuring techniques to a cardiac sonogram while further developing their scanning skills.

Prerequisites: CAS 225L

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

Attributes: Undergraduate

CAS 232 Echo Clinical III (4 credits)

This course will provide continued clinical experience to perfect the student's scanning skills. The student will apply knowledge learned throughout the Cardiac Sonography Program to demonstrate clinical competency in specific cardiac ultrasound procedures.

Prerequisites: CAS 229L and CAS 228

Restrictions: Enrollment is limited to students with a major in Cardiac Sonography.

Attributes: Undergraduate