

ECHO1105 - Adult Echocardiography Lab I

Credits:	3 (0/3/0)
Description:	This course provides hands-on learning in an echocardiography laboratory as simulated in a clinical environment. Students familiarize with ultrasound imaging equipment, system controls, transducer position, and scanning techniques following an adult transthoracic echocardiography exam protocol.
Prerequisites:	
Corequisites:	• ECHO1100
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none">1. List the different imaging modalities used in echocardiography.2. Describe how ultrasound physics is related to the creation of an ultrasound image.3. Demonstrate the use of psychomotor skills when acquiring two-dimensional (2D) imaging in the creation of an echocardiography image.4. List the imaging planes used in echocardiography.5. Describe how to optimize 2D imaging for improved visualization of heart structures.6. Demonstrate the role of cultural diversity in the communication process during an exam.7. List the different controls used to create an ultrasound image.8. Demonstrate how to obtain color Doppler imaging.9. Demonstrate how to prepare the examination room, ultrasound equipment, and the patient for an exam.10. Demonstrate proper body mechanics and ergonomics during an exam.11. Demonstrate how to obtain pulsed and continuous wave spectral Doppler imaging.12. List the pertinent clinical information that is obtained prior to performing an echocardiogram.13. Demonstrate the use of M-mode for the assessment of heart structure.14. Demonstrate a systematic approach to an echocardiography examination.
MnTC goal areas:	None

*Can be taken as a Prerequisite or Corequisite.