

## 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"> <li>1. List the different imaging modalities used in echocardiography.</li> <li>2. Describe how ultrasound physics is related to the creation of an ultrasound image.</li> <li>3. Demonstrate the use of psychomotor skills when acquiring two-dimensional (2D) imaging in the creation of an echocardiography image.</li> <li>4. List the imaging planes used in echocardiography.</li> <li>5. Describe how to optimize 2D imaging for improved visualization of heart structures.</li> <li>6. Demonstrate the role of cultural diversity in the communication process during an exam.</li> <li>7. List the different controls used to create an ultrasound image.</li> <li>8. Demonstrate how to obtain color Doppler imaging.</li> <li>9. Demonstrate how to prepare the examination room, ultrasound equipment, and the patient for an exam.</li> <li>10. Demonstrate proper body mechanics and ergonomics during an exam.</li> <li>11. Demonstrate how to obtain pulsed and continuous wave spectral Doppler imaging.</li> <li>12. List the pertinent clinical information that is obtained prior to performing an echocardiogram.</li> <li>13. Demonstrate the use of M-mode for the assessment of heart structure.</li> <li>14. Demonstrate a systematic approach to an echocardiography examination.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.