

## ECHO1115 - Adult Echocardiography Lab II

Credits:	3 (0/3/0)
Description:	Students will continue to build on the ultrasound scanning skills learned in ECHO1100. Content includes the development of a full adult transthoracic echocardiography scanning protocol. In addition, students will learn the required measurements to determine the severity of cardiovascular disease.
Prerequisites:	• ECHO1100 • ECHO1105
Corequisites:	• ECHO1110
Pre/Corequisites*:	
Competencies:	<ol> <li>List patient information that is obtained prior to performing an echocardiogram.</li> <li>Demonstrate proper body mechanics and ergonomics during an ultrasound exam.</li> <li>List the two-dimensional (2D) views required for a complete echocardiogram.</li> <li>Demonstrate the use of psychomotor skills when acquiring 2D and Doppler techniques for the creation of an echocardiographic image.</li> <li>Demonstrate how to measure heart size and function using 2D imaging.</li> <li>List the echocardiographic views required to assess ischemic disease.</li> <li>Demonstrate how to measure Doppler waveforms for an assessment of diastolic function.</li> <li>Describe the echocardiographic views required for pericardial disease assessment.</li> <li>Describe how the Doppler principles are applied to an ultrasound image.</li> <li>List the imaging protocol for a complete echocardiographic examination.</li> <li>Describe how to optimize 2D imaging for improved visualization of heart structures.</li> <li>Demonstrate how to apply color Doppler for the assessment of valvular disease.</li> <li>Analyze Doppler waveforms in valvular stenosis.</li> <li>Demonstrate the use of M-mode for an assessment of heart structure.</li> <li>Demonstrate a systematic approach to a 2D and Doppler exam.</li> </ol>
MnTC goal areas:	None

<sup>\*</sup>Can be taking as a Prerequisite or Corequisite.