

Course Objectives/Course Outline
Spokane Community College

Course Title: Vascular Clinical I

Prefix and Course Number: VASC 253

Course Description:

This course will utilize the fundamentals presented in the first year of noninvasive cardiovascular technology to evaluate acquired cardiovascular disease states. This course will incorporate all forms of noninvasive cardiovascular testing with emphasis on performance and interpretation of M-mode, Two-dimensional and Doppler echocardiography. Related physician lectures, and laboratory experiences are provided.

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Independently interpret M-mode, Two-dimensional, and Doppler echocardiograms obtained on patients with acquired cardiovascular disease
- Perform an M-mode and Two-dimensional echocardiogram, demonstrating each of the standard views
- Explain the pathophysiology and resulting effects on the echocardiogram for each of the acquired cardiovascular diseases
- Alter the echocardiographic examination to tailor the examination to the acquired cardiovascular abnormality present
- Quantitate the M-mode, Two-dimensional and Doppler echocardiogram
- Correlate the echocardiographic examination with other cardiovascular diagnostic procedures

Course Outline:

- I. Clinical Indications, Protocols, Hemodynamics
- II. Assessment of Systolic and Diastolic Function
- III. Coronary Artery Disease and Stress Echo
- IV. Aortic and Mitral Stenosis and Regurgitation
- V. Cardiomyopathies
- VI. Pericardial Disease
- VII. Prosthetic Valves and Endocarditis
- VIII. Cardiac Masses
- IX. Diseases of the Aorta and Systemic Diseases