

Course Objectives/Course Outline
Spokane Community College

Course Title: Echocardiography I

Prefix and Course Number: ECHO 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 emphasize the evaluation and interpretation of the Doppler and 2D Echo examinations.

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
- Explain the pathophysiology and resulting effects on the echocardiogram for each of the acquired cardiovascular diseases
- Describe how to tailor the echocardiographic 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. Valvular Heart Disease
- V. Cardiomyopathies
- VI. Pericardial Disease
- VII. Prosthetic Valves and Endocarditis
- VIII. Cardiac Masses
- IX. Diseases of the Aorta and Systemic Diseases