

Course Objectives/Course Outline
Spokane Community College

Course Title: Cardiovascular Physiology I

Prefix and Course Number: ECHO 118

Course Description:

This course is an introductory study of normal cardiovascular physiology principles. Emphasis is placed on cardiac anatomy and structure, electrical system, the heart as a pump, cardiac output, and basic hemodynamics.

Course Learning Outcomes:

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

1. Identify cardiac anatomy and structure.
2. Describe the physical factors which effect blood circulation.
3. Describe the electrical conduction system of the heart and how it relates to the ECG.
4. Describe the physical principles of the heart as a pump.
5. Describe the regulation of blood flow, cardiac output, and neurologic effects.

Course Outline:

- I. The Circuitry
- II. Electrophysiology
- III. Cardiac Pump
- IV. Regulation of Heartbeat
- V. Hemodynamics