

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** Hemodynamics

**Prefix and Course Number:** ECHO 126

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**Course Learning Outcomes:**

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

- Describe recording systems
- Interpret intracardiac pressures normal and abnormal
- Identify common intracardiac shunts

**Course Outline:**

- I. Basic Hemodynamics principles
- II. Preload
- III. Afterload
- IV. Contractility
- V. Pressure Physiology
- VI. Monitoring Equipment
- VII. Electrical Safety
- VIII. IV Access
- IX. CVP Monitoring
- X. Right Heart Monitoring
- XI. Arterial Pressure Monitoring
- XII. Left Heart Cath Hemodynamics normal
- XIII. Left Heart Cath Hemodynamics normal
- XIV. Cardiac Output and Other Calculations
- XV. Introduction to shunts