

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

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**Course Title:** AVIONICS SYSTEMS LAB  
**Prefix and Course Number:** ELECT 248

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**Course Learning Outcomes:**

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

- Practice all the personnel and equipment safety standards and procedures
- Use avionics systems terminology correctly.
- Explain the principles of avionics systems
- Demonstrate system alignment procedures
- Demonstrate system troubleshooting techniques

**COURSE OUTLINE:**

- I. Introduction
  - A. Class Organization
  - B. Grading
  - C. Department Policies
  - D. Attendance
  - E. Safety
- II. Personal Safety
  - A. Electrical Shock
  - B. Eye Protection
- III. Equipment Protection
  - A. Static Electricity
  - B. Liquids
  - C. Cables
- IV. Navigation Systems
  - A. VHF Navigation System
  - B. Instrument Landing System
  - C. Satellite Navigation System
- V. Pulsed Equipment Systems
  - A. Transponder
  - B. Distance Measuring Equipment
- VI. Flight Control Systems
- VII. Systems Interfacing
- VIII. Systems Troubleshooting