

Course Objectives/Course Outline
Spokane Community College

Course Title: AVIONICS SYSTEMS

Prefix and Course Number: ELECT 247

Course Learning Outcomes:

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

- Be fully aware of all the personnel and equipment safety standards and procedures.
- Use avionics systems terminology correctly.
- State the principles of avionics systems
- Demonstrate system alignment procedures
- Demonstrate with 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