

Course Objectives/Course Outline

Spokane Community College

Course Title: LINEAR DEVICES

Prefix and Course Number: ELECT 215

Learning/Performance Expectations (e.g., outcomes, performance objectives, competencies, etc.)

AT THE COMPLETION OF THIS COURSE, A STUDENT SHOULD BE ABLE TO:

- Use proper linear device and circuit terminology
- State the fundamental principles of linear devices and circuits
- Identify common linear devices and symbols
- Calculate circuit parameters for linear device circuits
- Demonstrate basic troubleshooting techniques for linear device circuits

COURSE OUTLINE:

- I. Course Overview
- II. Personal Safety
- III. Thyristors
- IV. Frequency Effects
- V. Amplifiers
 - A. Differential
 - B. Operational
 - C. Feedback
 - D. Applications
- VI. Filters
- VII. Oscillators
- VIII. Power Supplies
- IX. Troubleshooting Linear Device Circuits