Course Objectives/Course Outline Spokane Community College

Course Title: Circuit Theory II Lab

Prefix and Course Number: ELECT 122

Course Learning Outcomes:

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

- —Calculate and measure RC time constants
- —Determine and measure RC frequency response
- —Calculate and measure the characteristics of inductors and transformers
- —Design and construct RLC filters single pole
- —Determine AC characteristics by Ohm's and Kirchhoff's Laws
- —Construct and verify diode characteristics
- —Use lab test equipment

Course Outline:

- Course Overview
- III. Equipment Protection
- IV. Equipment Familiarization
 - A. Oscilloscope
 - B. Signal Generator
- V. Ohm's and Kirchhoff's Laws for AC
- VI. RC Time Constants
- VII. Capacitive Reactance
- VIII. RC Frequency Response
- IX. Inductors
- X. Transformers
- XI. Series AC Circuit
- XII. Resonance
- XIII. Parallel AC Circuit