

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

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**Course Title:** Circuit Theory II

**Prefix and Course Number:** ELECT 121

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**Course Learning Outcomes:**

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

- Calculate AC circuit quantities
- Identify the response curves of filter circuits
- List the AC and DC characteristics of capacitance
- Calculate RC time constants
- Explain the principles of filter circuits
- Calculate the characteristics of RLC circuits
- Apply circuit understanding to evaluate measurements

**Course Outline:**

- I. Course Overview
- II. Equipment Protection
- III. Magnetism and Electromagnetism
- V. Alternating Voltage and Current
- VI. Capacitance
- VII. Capacitive Reactance
- VIII. Capacitive Circuits
- IX. Inductance
- X. Inductive Reactance
- XI. Inductive Circuits
- XII. RC and L/R Time Constants
- XIII. Alternating Current Circuits
- XIV. Resonance

## XV. Filters