

ELC 127 Software for Technicians

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

This course introduces computer software which can be used to solve electrical/electronic problems. Topics include electrical/electronics calculations and applications. Upon completion, students should be able to utilize a personal computer for electrical/electronic related applications.

Course Hours per Week: Class 1. Lab 3. Semester Hours Credit 2

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to

- a) Use computer programs to write, edit, execute, and debug computer code.
- b) Write programs to solve algebraic formulas.
- c) Write programs to perform algorithms.
- d) Create and interpret flow charts for programs.
- e) Compile programs.
- f) Understand the process of debugging programs.

OUTLINE OF INSTRUCTION:

1. Introduction to C Programming
 - a. Print
 - b. Scanf
2. Integers
 - a. Integer Variables
 - b. Integer Calculations Addition, Subtraction, Multiplication, and Division
3. Array and Loops
 - a. Character Array
 - b. FOR Loop
 - c. FOR Loop with Array
 - d.