

CSC 121 Python Programming

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

This course introduces computer programming using the Python programming language. Emphasis is placed on common algorithms and programming principles utilizing the standard library distributed with Python. Upon completion, students should be able to design, code, test, and debug Python language programs.

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

LEARNING OUTCOMES:

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

1. Create a software application using the Python programming language.
2. Debug a software application written in the Python programming language.
3. Test a software application written in the Python programming language.

OUTLINE OF INSTRUCTION:

- I. Functions
- II. Exceptions
- III. Files
- IV. Lists and Tuples
- V. More About Strings
- VI. Dictionaries and Sets
- VII. Classes and Object-Oriented Programming
- VIII. Libraries
- IX. Special Topics

REQUIRED TEXTBOOK AND MATERIAL:

The textbook and other instructional material will be determined by the instructor.