

Prerequisites: None

Corequisites: None

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs.

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

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

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

- I. Introduction to Computers and Java
- II. Java Fundamentals
- III. Decision Structures
- IV. Loops and Files
- V. Methods
- VI. A First Look at Classes
- VII. Arrays and the ArrayList Class
- VIII.