J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITP 120  Credits: 4

Course Title: Java Programming I

Course Description: Teaches the fundamentals of object-oriented programming using Java. Emphasizes program construction, algorithm development, coding, debugging, and documentation of console and graphical user interface applications. Lecture 4 hours per week.

General Course Purpose: The course can also be used as an IT elective in any degree concentration.

Course Prerequisites and Co-requisites: None

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Define the use of Java as a programming language;
b. Define object orientation, classes, and methods;
c. Write applications of considerable complexity using the Java programming language;
d. Test and debug written applications; and
e. Enhance the functionality of application through program modifications.

Major Topics to Be Included:
a. Programming Logic and Design
b. Programming Structures
c. Arrays
d. Console I/O
e. Procedures/Functions/Methods
f. Parameters/Arguments
g. Packages (API)
h. Data Types
i. Documentation (Java Docs)
j. UML
k. Ethics
l. OOP concepts

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