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.

Course Prerequisites/Corequisites

None

Course Objectives

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 Java (applets, graphics, and animation).
d. Test and debug written applications for an Internet environment.
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

Effective Date of Course Content Summary: October 20, 2008