

## CSC 151 Java Programming

Credit Hours	Lecture Hours	Lab Hours	Prerequisite or Corequisite
3	2	3	none

### CATALOG DESCRIPTION

This course introduces computer programming using the JAVA language. Topics include selection, iteration, arithmetic and logical operators, classes, inheritance, methods, arrays, user interfaces, basic applet creation and other related topics. Upon completion, students should be able to design, code, test, debug JAVA language programs. There is a \$11.25 lab fee for this course

### REQUIRED RESOURCES

#### Textbook(s)

Java Programming, Third Edition by Joyce Farrell

#### Materials

At least one 1.4 MB floppy disk or flash drive

#### Technology

### LEARNING OBJECTIVES

- 1 Understand basic Java language constructs
- 2 Understand the workings of the Java Runtime Environment (JRE), and how this relates to creating programs that are platform independent
- 3 Understand the basic concepts of Object Oriented Programming including:
  - Classes
  - Objects
  - Methods
  - Constructors
  - Static Data Storage
- 4 Understand basic programming techniques and constructs common to all programming languages, including being able to program and use:
  - Variables and Constants
  - Programming calculations and other expressions
  - Decision Constructs - if( ) and switch( ) statements
  - Iterative Constructs - loops
- 5 Understand the workings of Java applets
- 6 Develop a basic understanding of programming in graphics using various Java classes from the Java class libraries
- 7 Be able to write basic, error-free Java code

### COURSE DELIVERY METHODS

If this course is taught as an online, hybrid, or web enhanced course; the course will require access to the PCC Blackboard learning system via the Internet. Students are expected to login to the Blackboard course **AT LEAST 3 times per week**. Students are also expected to use the PCC

Campus Cruiser web mail system to correspond with the instructor and **check email at least once every 24 hours Monday – Friday.**

### **COURSE SPECIFIC INFORMATION**

Course will use Java Runtime environment as the means of creating platform independent programs.

**Complete syllabus** with due dates, attendance policies, and other information is provided by the instructor for the course.

*Last Updated July, 2007*