

## Course Syllabi

1. Course Number: COP 2250  
Course Name: Programming in Java
2. Credits and contact hours: 3
3. Instructor's or course coordinator's name:  
Maria Charters
4. Text book, title, author, and year:  
Title: Starting Out with Java 5: Control Structures to Objects  
Author: Tony Gaddis  
Year: 2005
  - a. other supplemental materials:
5. Specific course information:
  - a. brief description of the content of the course (catalog description):

A first course in programming for IT majors. Syntax and semantics of Java. Classes and Objects. Object-oriented program development. Not acceptable for CS majors. This course will have additional fees.
  - b. prerequisites or co-requisites:

None
  - c. indicate whether a required, elective, or selected elective (as per Table 5-1) course in the program: Required
6. Specific goals for the course:
  - a. Specific outcomes of instruction, ex. The student will be able to explain the significance of current research about a particular topic:
    1. Be familiar with concepts of Objects and Classes.
    2. Master the fundamental java data types.
    3. Master the java selection and iteration constructs.
    4. Be exposed to arrays
    5. Master using String, ArrayList, and wrapper classes.
    6. Master analyzing problems and writing java program solutions to those problems using the above features.
    7. Be exposed to software testing and interactive debugging

8. Master complex Boolean expressions in selection and iteration constructs
9. Master good programming practices
10. Master methods, method parameters, and parameter passing

b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course:

b

7. Brief list of topics to be covered:

Java Fundamentals – Objects and Classes – Data Types – String Class – Conditional Statements – Iterative Statements – Arrays, ArrayList, Wrapper classes.