Course Syllabi

1. Course Number: COP 2210
   Course Name: Computer Programming I

2. Credits and contact hours: 4

3. Instructor's or course coordinator's name:
   Janki Bhimani

4. Text book, title, author, and year:
   Title: Big Java
   Author: Cay Horstmann
   Year: Latest Ed.

   a. other supplemental materials:

5. Specific course information:

   a. brief description of the content of the course (catalog description):

      A first course in computer science that uses a structured programming language to study programming and problem solving on the computer. Includes the design, construction and analysis of programs. Student participation in a closed instructional lab is required. This course will have additional fees.

   b. prerequisites or co-requisites:

      MAC 1140 or MAC 1147 or MAC 2233 or MAC 2311 or Advisor's permission
      Includes a closed-lab component

   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 the concepts of Objects & Classes

2. Master the fundamental Java data types
3. Master the Java selection and iteration constructs
4. Be familiar with arrays & ArrayLists
5. Master using String and Wrapper classes
6. Be familiar with reading and writing of text files
7. Master analyzing problems and writing Java program solutions to those problems using the above features
8. Be exposed to software testing and interactive debugging
9. Master complex Boolean expressions in selection and iteration constructs
10. Master good programming practices
11. 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 – c – i

7. Brief list of topics to be covered:

Object-Oriented Design and Programming – I/O (JOptionPane, Text files) – Fundamentals of Java data types – Control Structures – Arrays and ArrayLists.