Course Syllabus

Course Title: Java Programming II

Course Description:
Expand the Java language and object-oriented programming concepts introduced in Java Programming I. Introduce advanced Java concepts – inheritance, polymorphism, abstract classes, exception handling, use of collections and database connectivity. Gain more practical experience by designing and writing Java applications.

Course Prerequisite(s):
Java Programming I

Course Objectives:
Upon completion, you will:
- Be able to design and develop multi-object Java applications
- Understand the major object-oriented programming concepts
- Have a firm foundation of all the core Java concepts
- Be able to develop Java applications that connect to relational databases.

Textbook(s): OPTIONAL
Murach's Java Programming 4th ed.
Joel Murach; Murach Publishers
ISBN: 978-1-890774-65-3

Next Class Possibilities
Java Web Application Development I, Java Programming III

Instructor Notes:
Do not purchase text before first class meeting

Lesson Plan – by week or session
Session 1:   Review of Java I, Java Inheritance
Session 2:   Abstract classes and Interfaces
Session 3:   Polymorphism, Java best practices
Session 4:   Practical Java examples and exercises
Session 5:   Arrays, Collections, introduction to generics
Session 6:   Exceptions and error handling
Session 7:   Java database connectivity
Session 8:   Java Input/output (text, objects and xml)