Course Title: Java Programming II

Class Web Site: www.ronday.cc/java2

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, Eclipse IDE

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): Required
Murach’s Beginning Java with Eclipse
by Joel Murach and Michael Urban
Murach Publishers, 978-1890774899

Next Class Possibilities
Java Web Application Development I, Introduction to Spring, Java Programming III

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, packages
Session 4: Exceptions and error handling
Session 5: Arrays, Collections, introduction to generics
Session 6: Arrays, Collections, introduction to generics (cont’d)
Session 7: Java database connectivity
Session 8: Misc. TBD