

Syllabus

Java Programming

Summer 2008

Course Information

| | |
|----------------|--|
| Instructor: | George (Taehyung) Wang, twang@csun.edu , http://www.csun.edu/~twang |
| Textbook | Java from the Beginning, 2 nd edition, Jan Skansholm, Addison-Wesley, ISBN 0 321 15416 9 |
| Lecture & lab | JD2211, T TR 14:00 – 16:00 (see the below in detail) |
| Course website | http://www.csun.edu/~twang/Java |

Course Description

This course addresses the major features of Java programming, including object-oriented programming development, graphical user interface, and active objects.

Course Objectives

Upon successful completion of the course the students will:

- Be able to solve problems using Java programming.
- Be able to apply object-oriented development skills to real-world applications.
- Be able to use computer aided software engineering (CASE) tools.

Course Requirements

Attendance

Attendance is recommended.

Tutorial Assignments

At least one tutorial assignment will be given to assess your understanding of class materials in every class. Students are required to complete this assignment by the end of class.

Course Schedule and Outline

This course consists of three segments: the first segment (2 weeks) will start June 24th and go through July 3rd; the second segment (2 weeks) will continue July 22nd and finish on July 31st; and the third segment (2 weeks) will resume August 12th and end on August 21st.

| Day / Week | Topic |
|-------------------|---|
| Week 1 – T. 6/24 | Software development tools and getting started / Ch. 1 |
| Week 1 – Th. 6/26 | Data types, operators, statements and data input / Ch. 1 |
| Week 2 – T. 7/1 | Class, object and package / Ch2, Ch3 |
| Week 2 – Th. 7/3 | Object-oriented program development and UML / Ch. 4 |
| Week 3 – T. 7/22 | Reading and writing files / Ch. 5 |
| Week 3 – Th. 7/24 | Inheritance, polymorphism, abstract class, and interface / Ch. 10 |
| Week 4 – T. 7/29 | Arrays, vectors and lists / Ch. 9 |
| Week 4 – Th. 7/31 | GUI components / Ch. 6, Ch. 8 |
| Week 5 – T. 8/12 | Exceptions / Ch. 11 |
| Week 5 – Th. 8/14 | Multithreading / Ch. 12 |
| Week 6 – T. 8/19 | Event, listeners and actions / Ch 13 |
| Week 6 – Th. 8/21 | Menus, windows and dialogs / Ch. 14 |