Course Title: Java Web Application Development I

Course Description:
Learn how to design and develop dynamic web sites using Java technologies. This course will cover the basics of both Java Servlets and JavaServer Pages, based on the J2EE Servlet specification version 2.5/3.0. Basic database connectivity using the Java JDBC API is also covered. The course involves extensive hands-on development. The student will also learn how to install, configure and administer a basic Java application server.

Course Prerequisite(s):
Java II, HTML

Course Objectives:
1. Become familiar with modern web (application) server architectures.
2. Understand the difference between client side and server side programming.
3. Understand the Servlet life-cycle model, and the Servlet 2.5/3.0 API
4. Understand JSPs, and be proficient in the use of the JSP 2.1/2.2 API
5. Be proficient in Basic Server-side Java Programming.
6. Be able to use HTML, JSPs, Servlets, and database functionality to produce comprehensive dynamic web sites.

Textbook(s): OPTIONAL
Murach Java Servlets and JSP 3rd Ed.
Murach/Urban; Murach Publisher
ISBN: 978-1-890774-78-3

Next Class Possibilities:
Java Web Application Development II, Introduction to Spring

Instructor Notes:
Do not purchase text before first class meeting

Lesson Plan – by week or session
Session 1: Intro to Web Applications, Tomcat, HTML (chaps 1,2,4)
Session 2: Intro to Servlets (chap 6)
Session 3: Intro to JSPs (chap5)
Session 4:MVC Applications (chap 7)
Session 5: Sessions, Javabeans (chaps 8,9)
Session 6: Using JDBC (chap 13,14)
Session 7: Project Work
Session 8: Recap, Misc.