Course Title: Java Web Application Development II

Course Description: This course builds on the Java Web Application Development I course, and introduces the advanced features of Java Servlets and JavaServer Pages. Topics to be covered include custom tag libraries, Servlet filters, authentication, authorization, security and basic design patterns for web development. Learn how to use several open-source tools including Jakarta Tomcat, Ant and Log4j.

Course Prerequisite(s): Java Web Application Development I

Course Objectives:
1. Be able to effectively use modern web (application) servers.
2. Be proficient in advanced server-side Java programming.
3. Understand, and be proficient in the use of the JSP Tag and object model.
4. Understand, and be proficient in the use of custom JSP tag libraries.
5. Understand, and be proficient in the use of the JSP Filters
7. Be able to use HTML, JSPs, Servlets, and database functionality to produce advanced 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:
Introduction to Spring, Spring MVC, Java Programming III

Instructor Notes:

Lesson Plan – by week or session

Session 1: Additional JSP and Tag Libraries, Custom Tags
Session 2: Log4j, Eclipse User Libraries, JUnit, Ant
Session 3: Using a JNDI DataSource with the Context. JDBC Transactions. Improved DAO.
Session 4: How to work with HTTP requests and responses
Session 5: How to work with listeners and filters.
Session 6: How to: restrict access to a web resource; use JavaMail to send email; use SSL for a secure connection; use Maven.