

## Collin College - Continuing Education COURSE SYLLABUS

### COURSE INFORMATION

**Course Number:** JAVA 6520

**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.

**Suggested Course Prerequisite(s):** Java Web Application Development I

**Course Resources:** Murach Java Servlets and JSP 3rd Ed.  
Murach/Urban; Murach  
Publisher ISBN: 978-1-890774-78-3

**Student Learning Outcomes:**

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
6. Gain familiarity in the use of Ant and Log4J.
7. Be able to use HTML, JSPs, Servlets, and database functionality to produce advanced comprehensive dynamic web sites.

**Certification Notes:** N/A

**Next course recommendation:** Introduction to Spring, Spring MVC, Java Programming III.

**Refund Policy:** Please refer to [www.collin.edu/ce/inforegistrar.html](http://www.collin.edu/ce/inforegistrar.html) for our refund policy. No refunds after the start time of the first class.

**Americans with Disabilities Act:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

**Course Sessions:** Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

**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.

**Method of Evaluation:** Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.