

Collin College - Continuing Education

COURSE SYLLABUS

COURSE INFORMATION

Course Number: JAVA 6490

Course Title: Introduction to Spring

Course Description: Use Spring Framework to achieve Java application development in less time with improved maintainability. Experience the power and flexibility of the Inversion of Control and Dependency Injection design patterns. Discover how the open source Spring Framework simplifies and improves Java application development using a consistent architectural framework of over 20 modules, including Core, Beans, Context, AOP, JDBC, and Transactions.

Suggested Course Prerequisite(s): Java Programming II

Course Resources: Spring in Action 5th Edition Walls;
Ingram Publications ISBN: 9781617294945

Student Learning Outcomes: Upon completion, you will:

- Understand current best practices for Java development
- Understand the basic principles of dependency injection
- Be able to use the Spring framework container to develop in any Java environment
- Be able to use the JDBC & ORM abstraction layers to simplify database access.
- Understand the basics of Aspect-oriented programming (AOP)
- Be able to use the AOP framework to declare transactions.

Certification Notes: N/A

Next course recommendation: Spring MVC, Introduction to Hibernate

Refund Policy: Please refer to 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: Spring overview, setting up Spring environment. dependency injection

Session 2: Plain old Java object (POJO) paradigm, Bean Wiring

Session 3: Aspect-oriented programming (AOP) with Spring

Session 4: Data Persistence with Spring, Transactions 1

Session 5: Data Persistence with Spring, Transactions 2

Session 6: Other Spring Components

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.