

Collin College - Continuing Education

COURSE SYLLABUS

COURSE INFORMATION

Course Number: JAVA 6485

Course Title: Introduction to Hibernate

Course Description: Use Hibernate to perform Object-Relational mapping (ORM) from Java classes to database tables; Java data types to SQL data types. Use Hibernate with other open source tools: MySQL and Eclipse. Explore the data query and retrieval facilities and reduce your development time otherwise spent with manual data handling in SQL and JDBC.

Suggested Course Prerequisite(s): Java Programming II or equivalent experience.

Course Resources:

Student Learning Outcomes:

Demonstrate implementation of ORM using Hibernate and knowledge of facilities available in Hibernate, including retrieval and data persistence. Use Hibernate with other open source tools. Implement a Data Access Object (DAO) layer in Hibernate.

Certification Notes:

Next course recommendation: Introduction to Spring

Lesson Plan – by week or session:

Session 1: Starting with Hibernate, Basic Mapping and Object Identity, Component Mapping

Session 2: Inheritance and Custom Mapping, Many-to-One and One-to-Many Mapping, Collection Mapping

Session 3: Many-Valued Associations, HQL and JPA Query Language, Querying with Criteria and Example, Working with Objects

Session 4: Batch Processing and Native SQL, Caching in Hibernate, Transactions and Concurrency, Web Applications

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.

Method of Evaluation:

Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

Refund Policy:

Please refer to www.collin.edu/ce/inforegistrat.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.