Course Title: Introduction to Hibernate

Course Description:
Learn how to use Hibernate to do Object-Relational mapping (ORM) from Java classes to database tables; and Java data types to SQL data types. Use Hibernate with other open source tool; 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.

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

Course Objectives:
Learn how to implement ORM using Hibernate. 
Explore the 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.

Next Class Possibilities:
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 
Cashing in Hibernate 
Transactions and Concurrency 
Web Applications