

Collin College - Continuing Education COURSE SYLLABUS

COURSE INFORMATION

Course Number: JAVA 6505

Course Title: Java Programming II

Course Description: Expand the Java language and object-oriented programming concepts introduced in Java Programming I. Introduce advanced Java concepts – inheritance, polymorphism, abstract classes, exception handling, use of collections and database connectivity. Gain more practical experience by designing and writing Java applications.

Suggested Course Prerequisite(s): Java Programming I, Eclipse IDE

Course Resources: Murach's Beginning Java with Eclipse
by Joel Murach and Michael Urban Murach
Publishers, 978-1890774899

Student Learning Outcomes: Upon completion, you will:

- Be able to design and develop multi-object Java applications
- Understand the major object-oriented programming concepts
- Have a firm foundation of all the core Java concepts
- Be able to develop Java applications that connect to relational databases

Certification Notes: N/A

Next course recommendation: Java Web Application Development I,
Introduction to Spring, Java Programming III.

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: Review of Java I, Java Inheritance

Session 2: Abstract classes and Interfaces

Session 3: Polymorphism, Java best practices, packages

Session 4: Exceptions and error handling

Session 5: Arrays, Collections, introduction to generics

Session 6: Arrays, Collections, introduction to generics (cont'd)

Session 7: Java database connectivity

Session 8: Misc. TBD

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.