

Inver Hills Community College

CS 1127: Advanced Java Programming

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:

CS 1126 - Java Programming

Corequisites: None

MnTC Goals: None

Introduces advanced Java programming. Topics include Exception Handling, Multithreading, Multimedia, Files and Streams, JDBC, Servlets, RMI, Networking, Java Utilities package, Collections, JavaBeans.
Prereq: CS 1126.

B. COURSE EFFECTIVE DATES: 03/28/2001 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Collections
2. Files and Streams
3. Java Database Connectivity (JDBC)
4. Java Utilities Package
5. JavaBeans
6. Multimedia: Images, Animation, Audio and Video
7. Multithreading
8. Networking
9. Remote Method Invocation (RMI)
10. Servlets

D. LEARNING OUTCOMES (General)

1. Learn to build robust and fault tolerant programs using Java's exception handling capabilities
2. Understand Java's multimedia capabilities
3. Be able to use Java to store data in files and databases or move it across networks
4. Be familiar with and be able to use the classes provided in the java.util package
5. Understand JavaBeans and how they facilitate component oriented software construction
6. Be able to write multithreaded applications specifying that multiple activities occur in parallel

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted