

University of Detroit Mercy
College of Engineering and Science
Department of Mathematics and Computer Science

CSC-413 01/G1 Java
Fall 2004-2005

DESCRIPTION OF COURSE: Java Applications, Java Applets, Control Structures, Methods, Arrays, Strings and Characters, Object-Oriented Programming, Graphics and Java 2D, Basic Graphical User Interface Components, Exception Handling, Multithreading, Files and Streams, Java Utilities, JDBC, and Java Networking.

PREREQUISITES: None.

PREREQUISITES BY TOPIC: None

REQUIRED TEXT: Big Java, Cay Horstmann, Wiley, 2002.

INSTRUCTOR: Dr. Kevin Daimi, Room E259. Tel: 313-993-1503. Email: daimikj@udmercy.edu. Web Page: <http://es.udmercy.edu/~daimikj/html/daimikj.htm>

OFFICE HOURS: Monday 11.00-12.00 and Thursday 4.00-5.00 pm. Or email me to schedule an appointment.

LECTURE: MW 2.00-3.15 PM, room E230.

COURSE OBJECTIVES: To enhance the basic foundation of Object-Oriented Programming using Java, introduce the advanced concepts of programming in Java, and the techniques and tools of Java Graphics and Advanced Internet Programming with Java.

COURSE OUTCOMES: Upon completion of the course, students will be able to:

1. Understand the concepts of Object-Oriented Programming (OOP) in Java.
2. Be able to integrate the Internet into other information systems.
3. Be able to write Java Applets that can be downloaded from the Internet and played safely within a Web browser.
4. Be able to master the Java Swing Packages.
5. Be able to debug programs written in Java.

COMPUTER USAGE: Students will use Java 1.4.2 in the Distributed and Parallel Lab.

TOPICS:

- Developing Java Applications
- Control Structures

- Methods
- Arrays and Vectors
- Object-Based Programming
- Object-Oriented Programming
- Strings and Characters
- Java Applets Design
- Graphics
- Basic Graphical User Interface components
- Advanced Graphical User Interface components
- Exception Handling
- Multithreading
- Files, Input and Output Streams
- Java Database Connectivity
- Java Networking

COURSE ASSIGNMENTS:

Assignment	Topic Covered	Assign Date	Collect Date
Project 1	Object-Oriented Programming	9/22/2004	10/06/2004
Project 2	Graphical User Interface	10/27/2004	11/10/2004
Project 3	Multithreading	11/24/2004	12/08/2004
Group Project	Java Applet Application	10/27/2004	12/01/2004

GRADING:

Project/Exam	Percentage
Project 1	5%
Project 2	5%
Project 3	5%
Group Project	15%
Exam I	20%
Exam II	20%
Final Exam	30%

EXAM SCHEDULE:

Exam I	Wednesday, October 13, 2.25-3.15 pm
Exam II	Wednesday, November 17, 2.25-3.15 pm
Final Exam	Monday, December 13, 2.00-3.50 pm.

GRADING SCALE: A 95-100, A- 90-94, B+ 85-89, B 80-84, B- 75-79,
C+ 70-74, C 65-69, C- 60-64, D+ 55-59, D 50-54

IMPORTANT DATES:

September 13	Last Day to Add a Class
September 13	Last Day for 100% Refund
September 14-20	75% Refund Period
September 21-27	50% Refund Period
September 28 – October 4	25% Refund Period
October 1	Last Day to Drop a Class without a “W”
November 22	Last Day to Withdraw from Class

ACADEMIC INTEGRITY:

Students are expected to conform to a high standard of honesty and integrity in this course. Copying the work of someone else and other forms of cheating are strictly prohibited. Permitting or tolerating such behavior is also prohibited. The minimum penalty for any offense is a 0 on that assignment. The culprits may be subject to additional sanctions, up to and including expulsion from school for serious offenses, as prescribed by the University Catalog and the Engineering and Science Student Handbook.