

CSC-K223 Java Programming 1

Three Rivers Community College

Syllabus

Spring 2011

Instructor Information:

- Instructor: Joe Johnson
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- Office hours: Tuesday, Thursday 1:00 – 2:30

Learning Outcomes:

- After successful completion of this course, the student should have an understanding of the core features of the Java programming language. These features include its syntax for program structure – sequence, looping, branching, its object-oriented features for supporting encapsulation, inheritance, and polymorphism, and its features for doing file I/O. The student should also have an understanding of Java’s facility for automated memory management through automatic garbage collection. Finally, the student should also have an introductory understanding of data structures (arrays, linked lists, trees, and hash tables), their associated algorithms for searching, inserting, and deleting, the relative performance of these algorithms, and how to implement these algorithms in Java.

Texts:

- Deitel and Deitel, [Java How to Program](#), Pearson Publishing, ISBN 013605306 (Required)

Course Requirements:

- Regular programming assignments based on the topics covered in class (weekly or biweekly, depending on the topic) (40%)
 - It is extremely important you stay current with the material as it is cumulative – it builds on itself. Therefore, an assignment 1 week late will be subject to a 10 point penalty. After that, it will not be accepted. We will review the solutions to the problems in class after the late hand-in date.
- Midterm Exam (20%)
- Final Exam (Cumulative) (30%)
- Participation in classroom/online discussions (10%)

Pre-requisites

- CSC-K108 Intro to Programming

Schedule

Week	Date	Topic	Reading Assignment
1	01/25	Introduction to Java Applications	Chapter 2
2	02/01	Introduction to Classes and Objects	Chapter 3
3	02/08	Control Statements, Intro to Eclipse	Chapter 4, 5
4	02/15	Methods: A Deeper Look	Chapter 6
5	02/22	Arrays and ArrayLists	Chapter 7
6	03/01	Classes and Objects: A Deeper Look	Chapter 8
7	03/08	Exam 1	
	03/15	***** Spring Recess – NO CLASS *****	
8	03/22	Object-Oriented Programming: Inheritance	Chapter 9

9	03/29	Object-Oriented Programming: Polymorphism	Chapter 10
10	04/05	Exception Handling	Chapter 11, 16
11	04/12	Files, Streams, and Object Serialization	Chapter 17
12	04/19	Algorithms and Data Structures	Chapter 19, 22
13	04/26	Multithreading	Chapter 26
14	05/03	Exam 2	
15	05/10	Make-up	

Academic Integrity

- Three Rivers' catalog defines various forms of academic dishonesty and procedures for responding to them. All forms are violations of the trust between students and teachers. Students should familiarize themselves with the penalties for plagiarism and other forms of cheating.