CSC-108 Introduction to Programming

Three Rivers Community College

Syllabus

Fall 2010

Instructor Information:

- Instructor: Joe Johnson
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- Email: jjohnson@trcc.commnet.edu
- Office hours: Tuesday: 12:30 – 1:00, Thursday: 9:00 – 11:00, 12:30 – 1:00
- Office Location: 205W

Course Objectives:

- This course will discuss introductory concepts in programming using C++. Specifically, topics covered in this course are listed in the course schedule below.

Texts:

- Frank L. Friedman, Elliot B. Koffman, Problem Solving, Abstraction, and Design Using C++ (6th Edition), Pearson Publishing, ISBN 0558828728 (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

- K108 - Intro to Programming with C++

Schedule

Week	Date	Topic	Reading Assignment
1	08/31, 09/02	Introduction to Computers, Problem Solving, and Programming	Chapter 1
2	09/07, 09/09	Overview of C++	Chapter 2
3	09/14, 09/16	Top-Down Design with Functions and Classes	Chapter 3
4	09/21, 09/23	Selection Structures: if and switch Statements	Chapter 4
5	09/28, 09/30	Repetition and Loop Statements	Chapter 5
6	10/05, 10/07	Modular Programming	Chapter 6
7	10/12, 10/14	Simple Data Types	Chapter 7
8	10/19, 10/21	**10/19 – Midterm Exam**	
9	10/26, 10/28	Streams and File I/O, Recursion	Chapter 8
10	11/02, 11/04	Data Structures: Arrays and Structs	Chapter 9
11	11/09, 11/11	User-Defined Data Structures	Chapter 10

12	11/16, 11/18	Data Abstraction and Object-Oriented Design	Chapter 11
13	11/23, 11/25	Recursion	Chapter 12
14	11/30, 12/02	Pointers and Dynamic Data Structures	Chapter 13
15	12/07, 12/09	Algorithms and Data Structures	N/A
16	12/14, 12/16	**12/14 – Final Exam**, 12/16 – 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.