CSC-108 Introduction to Programming

Three Rivers Community College

Syllabus

Spring 2011

Instructor Information:

- Instructor: Joe Johnson
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- Office hours: Tuesday, Thursday: 1:00 – 2:30
- Office Location: 205W

Learning Outcomes:

- After successful completion of this course, the student should have an understanding of: general approaches to problem solving, essential elements of a program, program structure including sequence, branching, and looping structures, elementary data structures (variables and arrays), and basic elements of C++ syntax.

Texts:

- Frank L. Friedman, Elliot B. Koffman, <u>Problem Solving, Abstraction, and Design Using C++ (6th Edition),</u> 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%)

Schedule

Week	Date	Topic	Reading Assignment
1	01/20	Introduction to Computers, Problem Solving, and Programming	Chapter 1
2	01/25, 01/27	Introduction to Computers, Problem Solving, and Programming	Chapters 1, 2
3	02/01, 02/03	Overview of C++, 02/03 – Professional Day – NO CLASS	Chapter 2
4	02/08, 02/10	Top Down Design with Functions and Classes	Chapter 3
5	02/15, 02/17	Top Down Design with Functions and Classes (contd.)	Chapter 3
6	02/22, 02/24	Selection Statements: if and switch Statements	Chapter 4
7	03/01, 03/03	Selection Statements: if and switch Statements (contd.)	Chapter 4
8	03/08, 03/10	Repetition and Loop Statements	Chapter 5
9	03/15, 03/17	***** Spring Break – NO CLASSES ******	
10	03/22, 03/24	Repetition and Loop Statements (contd.)	Chapter 5

11	03/29, 03/31	Review, **03/24 – Midterm Exam**	
12	04/05, 04/07	Modular Programming	Chapter 6
13	04/12, 04/14	Modular Programming (contd.)	Chapter 6
14	04/19, 04/21	Simple Data Types	Chapter 7
15	04/26, 04/28	Streams and Files	Chapter 8
16	05/03, 05/05	Data Structures: Arrays and Structs, Review	Chapter 9
17	05/10, 05/12	05/10 – Final Exam, 05/12 – Make-up	Chapter 9

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.