BOSTON UNIVERSITY, METROPOLITAN COLLEGE

COMPUTER SCIENCE DEPARTMENT

MET CS231 C1, Programming With C++

Course Overview:

Covers the elements of object-oriented programming and the C++ language. Data types, control structures, functions, library functions, classes, inheritance, and multiple inheritance. Use of constructors, destructors, function and operator overloading, reference parameters and default values, friend functions, input and output streams, templates, and exceptions.

Prerequisites: MET CS201 or instructor's consent.

Learning Objectives:

Upon completion of the course, the student should be able to use C++ for writing well-organized object-oriented programs and will be ready to move on to other advanced computer science topics.

Textbook: Programming and Problem Solving With C++, Comprehensive ed., Dale & Weems, 6th edition, ISBN 978-1-284-02876-8.

Evaluation and Grading:

There will be a midterm exam, a final exam and assignments. If any grading criteria event will be missed it will be the responsibility of the student to arrange a mutually agreeable schedule for completion of work.

Grades will be based on:

Class assignments (delivered in hard copy) 30% Midterm 30% Final 40%

Academic Honesty:

The course is governed by the Academic Conduct Committee policies regarding plagiarism (any attempt to represent the work of another person as one's own). This includes copying (even with modifications) of a program or segment of code. You can discuss general ideas with other people, but the work you submit must be your own. Collaboration is not permitted.

Instructor information:

Dr. Mehdi Abedinejad Cell: 617-512-8756

Email: mmabedinejad@gmail.com

Office hours: 5:00 pm - 6:00 pm inside the class

Schedule of Classes:

Week1	Data Types, Expressions, Control Structures	Chapters 1-4
Week2	Control Structures, Looping	Chapters 5-6
Week3	More Control Structures, Functions	Chapters 7-8
Week4	Scope, Lifetime, User Defined Data Types	Chapters 9-10
Week5	Arrays, Intro to Classes	Chapters 11-12
Week6	Midterm exam (Closed book, notes,)	
Week7	Classes and Abstraction, More on Arrays	Chapters 12-13
Week8	Dynamic Data, Linked Lists	Chapter 14
Week9	OOP, Inheritance	Chapter 15
Week10	Polymorphism, Dynamic Binding	Chapter 15
Week11	Templates, Operator Overloading, Exceptions	Chapter 16
Week12	Introduction to Data Structures	Chapter 17
Week13	Recursion	Chapter 18
Week14	Review	

Final Exam (Closed book, notes, ...)