Syllabus for CMSC 298C – Introduction to C++

Prerequisites: CMSC132 (or equivalent) with a grade of C or better.
Required Texts: TBA
Course Meeting Times: Monday through Friday, 10 am – 12pm
Credits: 2

Objective: This class will focuses on the syntax and semantic of the C++ programming language. The class assumes knowledge of the object-oriented programming model and it is ideal for those students that have programmed in an object-oriented programming language (e.g., Java), and want to learn C++.

Inclement Weather Policy

In case of bad weather, we will make up any missed days by adding extra hour to daily lectures. Tuesday, January 24, 2006 is the official snow day for the course.

Topics

- Input/output in C++
- Overview of expressions, conditionals, and iteration statements
- Static arrays
- Pointers
- Definition of methods, passing by value, passing by reference, aliasing
- Dynamic memory allocation, memory maps
- Dynamically-allocated arrays
- Class definition, instance variables, state, public, private, protected
- Inheritance, abstract classes, polymorphism
- Multiple inheritance
- Templates
- Exceptions
- Operator overloading

Assignments

There will be approximately three programming projects. There will also be announced quizzes and one final.

Grading

All homework assignments are due at **3pm** on the due date. They are to be submitted electronically according to instructions given with the assignments. All late assignments will have points deducted as follows:

-20% One-day late (No assignments will be accepted after the one-day late period)

Your final grade will be computed using the following contributions:

40% Homeworks, 35% Quizzes, 25% Final Exam

Academic Honesty

All assignments, quizzes, and exams must be done on your own. If you are found to have cheated by showing your solution to other students, allowing others to obtain access to your work, looking at or copying others work, etc. your case will be sent to the university's Office of Judicial Programs. You are allowed to use the web for reference, but you must not copy code from any website or any other source. The code you submit must be your own.