Computer Science 200—Fall 1995

		Room	Phone	E-mail
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Course Objectives:

- To understand the concepts of Object Oriented Programming (OOP) and Object Oriented Design (OOD), data abstraction and information hiding.
- To become familiar measuring computational complexity and performing algorithm analysis.
- To become familiar with some of the common abstract data types and data structures frequently used to store collections of objects, and with the corresponding algorithms.
- To become proficient at programming in C++.

Time/Location:

Lectures: MWF 14:30–15:20 Library 5-172

Office Hours: *to be determined.*

Textbook:

Mark Allen Weiss, Data Structures and Algorithm Analysis in C++, Benjamin Cummings, 1994. **Required**.

Patrick Henry Winston , On to C++, Addison-Wesley, 1994. This book isn't absolutely essential, but I would **strongly recommend** it. It contains many examples of C++ code, and is a good resource book for answering questions of the kind, "how do I … in C++?"

References:

Bjarne Stroustrup, The C++ Programming Language (second edition), Addison-Wesley, 1993. **This book is not required for CPSC 200.** This is the C++ programming language book in the same way that Kernighan & Ritchie is the C programming language book. It contains good advice about object-oriented programming and object-oriented design as well as defining the C++ language. On the other hand it is fairly heavy going.

Material:

Will hand out a syllabus next week. The first week will be an introduction to C++. The second week will be an introduction to the analysis of algorithms, and then we'll move on to sorting algorithms (Chapter 7 of *Weiss*).

Course Assessment:

The grade that you receive for CPSC 200 is based on homework assignments, two midterm examinations, and a final examination. The relative weights for the various components is shown in the table below. Some of the homework assignments involve programming in C++.

Component	%	Dates
Assignments	20	Weekly
Midterm	20	Wednesday, 11-October-95
Midterm	20	Friday, 3-November-95
Final Exam	40	During Final Exam week, which begins Monday, 11 December

Notes:

Midterm dates are still tentative

I reserve the right to modify the weightings of the various components of the course.