CS 215 – Fundamentals of Programming II  
Fall 2007 (Harlaxton) – Exam 1 Review Sheet

Notes and Reminders:

● Homework 7 is due at the beginning of class on Thursday, November 1. **NO LATE SUBMISSIONS** will be accepted.
● Thursday, November 1, has been set aside as a review for the exam. We will go over Homeworks 5, 6, & 7, and answer any questions you have about the material.

Exam 2 will be on Monday, November 5. You may bring one A4 size sheet of paper with notes on one side to the exam. You may print out the sheet, but it must be in a 9-point font or larger. E.g., please do not photoreduce or print 4 pages on a side. If you handwrite your notes, they may be as small as you like. You may handwrite notes in the margins of a printout.

The exam will be cumulative and comprehensive with respect to basic programming constructs in the sense that you are expected to be able to read and write code or analyses and designs using concepts such as selection, repetition, functions, Big-O algorithm analysis, and vectors. Emphasis will on the material in Chapters 5-9.4 (except Sections 5.6, 7.5, 8.2, 8.5 and 8.6) and covered in lectures, and homework and projects assigned through Monday, October 29. The exam will consist of questions similar to the homework problems, programming projects, and other exercises in the textbook.

The following is a list of topics that will be emphasized, but it is in no way to be construed as an exclusive list.

1. Pointers and dynamic allocation, including multi-dimensional arrays, the destructor, the copy constructor, and assignment operator
2. Lists and iterators - declaration and use
3. Stacks and queues - declaration and use
4. Linked lists - design and implementation, use as an implementation technique for other ADTs.