# Syllabus for CMSC 270

# Spring Term 2018 1:50 MWF Mr. Gregg

### **Course Description and Objectives**

CMSC 270 is an introductory course in data structures with instruction in the C++ language. The first objective of this course is to further your instruction in programming by giving you an exposure to the C++ language, which is more powerful and flexible than Java. The second objective is to begin the study of standard algorithms and data structures in computer science. Specifically, we will study linear data structures, recursion, trees, and various applications of these concepts.

## How this Course is Structured

We will meet three times a week for lectures. Early on in the course I will assign several short programming assignments each week. As the course progresses the programming assignments will become less frequent and more complex.

We will have two midterm exams and a final exam. Midterm exams are tentatively scheduled for Friday, April 20 and Friday, May 11. The final will be on Tuesday, June 5 at 8:00 AM.

# **Grading Policy**

Assignments and exams have the following weights:

Programs - 45% Midterm exams - 15% each Final exam - 25%

Late policy for assignments is that assignments may be turned in after the initial due date for a 5% penalty for each day the assignment is late. I will waive all or part of the late penalty if you have a valid excuse; however, you must contact me before the initial due date to ask for an extension.

### Textbook

Our text is Data Structures and Algorithms in C++, Third Edition by Adam Drozdek.

#### **Office Hours**

Office hours this term are 9-11 and 3-4 MWF and 1-3 on Thursday. In addition to those times, I will of course be available during CMSC 150 lab times from 9-11 and 1-3 on Tuesdays. My office is Briggs 413. My extension is 6736 and my email address is greggj@lawrence.edu.

#### **Course Web Site**

The course web site is at http://www.lawrence.edu/fast/greggj/cmsc270.html. The web site will feature lecture notes and other supplementary materials.

# Schedule of Topics and Exams

Week	Торіс	Chapter
1, 2	Basics of C++	1
3	Linked Lists	3
4	Stacks and Queues	4
4	First Midterm	-
5	Recursion	5
6,7	Binary Trees and Heaps	6
8	Second Midterm	-
8,9	Balanced Trees	6,7
10	Advanced C++	-