Computer Science 560
Algorithms and Their Analysis

Last updated: 1/6/2014

Here is a downloadable text file containing some lecture notes pertaining to Chapter 1. [Print this if you need a little more time to get the Lecture notes from KB Books (see below).]

Important information from the syllabus:

Send mail to carroll@rohan.sdsu.edu, to let me know your name and the email address to which you would like your course grades sent (I will email your grades to you at various points during the semester, and this will help ensure I send the right grades to the right address. I will also use this address to email homework assignments and hints.)

Text:

Notes:
A collection of the annotated programs and diagrams presented in class. Available at KB Books (5187 College Ave, 287-BOOK)

Course Content:
Algorithm analysis, induction, recursion and recurrence relations, sorting and selection, graph algorithms, introduction to NP-completeness and approximation algorithms.

Prerequisites:
CS310 (Data Structures) and Math245 (Discrete Mathematics). You must know the material in these courses, and the courses they depend on (e.g., Calculus), or you will be lost.

Grading:
Most assignments will involve mathematical analysis, and hence be turned in much as you would in any math class. (It does not have to be typeset, but it must be clear enough for me to follow.) Assignments will comprise 1/4 of your grade, the final will be worth 1/2, and the midterm will account for 1/4 of your grade. http://arweb.sdsu.edu/es/registrar/finalexams/14_spring.html says that our final is scheduled for Tuesday, May 13 from 3:30pm to 5:30pm (for Spring 2014).

Policies:
Homework and programming assignments are intended to help you learn. Talking over your ideas and problems with other people in the class is very helpful. You may discuss ideas, but you must do your own work and write up your own solutions and programs. In particular, you may NOT work on an assignment (or a program) as a team.

Using another person's work is cheating. Copying a program from a book is plagiarism, just like
copying from a paper for a humanities class, unless you give an appropriate citation. If you are in doubt about where the border line is for our assignments, ASK ME. It should go without saying (but past experience suggests saying it) that copying on exams, homework, or other forms of cheating will be dealt with severely. Automatic failure of the course is guaranteed in such cases, and sanctions can include expulsion from the university. If an assignment is copied (or developed as a team), BOTH parties will fail the course (so, if someone asks to copy your work, point them at this paragraph :-)

Your assignments are due at the beginning of class on the day specified on the assignment. To maintain fairness and uniformity of grading, I cannot accept late assignments. Similarly, there will be no make-up exams. In unusual circumstances (to be determined by me), you might be allowed to take an oral makeup at the end of the semester. If you know in advance that you will miss an exam, see me about it in advance. Note the date of our final exam now; don't make plans that conflict with the final. Note in particular that the university policy described in http://arweb.sdsu.edu/es/Registrar/Finalexams/14_spring.html prohibits taking the final early.