Course homepage: http://facweb.cs.depaul.edu/dstan/teaching/fall03/csc415/index.htm

Summary of the course

This course introduces the concepts of discrete mathematics that are fundamental throughout your graduate career in computer science. Some of the topics that we will cover are:

- Propositional logic and predicate logic
- Mathematical induction and other proof techniques
- Describing algorithms and proving their correctness
- Analyzing the running time of algorithms
- Recursive algorithms and recurrence relations
- Graph theory and graph algorithms

The above topics correspond to Chapters 1, 3, 5, and 6 of the textbook. Chapter 2 is considered review material with which you should already be familiar and we will not cover it in class. If you have any questions about Chapter 2 or any other background material, you are encouraged to come to my office hours and get extra help.

Textbooks and printed resources


Prerequisites

None

Grading

The 6 homework assignments will be worth 30% and the 2 quizzes will be 10% of the course grade. There will be a midterm exam given on Wednesday, October 15th that will be worth 30% of the course grade, and a final exam on Wednesday, November 19th, that will be worth 30%. Both midterm and final exams are closed book and closed notes. There will be no make up exams; under extreme circumstances, you have to contact me before the exam takes place.

The final grade will be assigned according to the following scale:

- A, 95 - 100%;
- A-, 90 - 94%;
- B+, 85 - 89%;
- B, 80 - 84%;
- B-, 75 - 79%;
- C+, 70 - 74%;
- C, 65 - 69%;
Homework Policies

There will be 6 weekly assignments, which are due at the beginning of class one week after they are assigned. Late assignments will be accepted up to one lecture later than the assigned due date with a 25% penalty - this penalty will be assessed in full to assignments turned in from the end of class on the day that the assignment is due up until the beginning of next lecture. No assignments will be accepted beyond the beginning of class one lecture beyond the due date. All assignments must be either typed or written in non-erasable ink. If your assignment is hand-written make sure your handwriting is legible. If I can't read what you have written, you will receive a zero for the corresponding assignment. The lowest grade of the 6 assignments will be dropped. Please note that given the high percentage of the course grade is determined by the assignments, you are very unlikely to get a good grade in this course if you do not complete all homework assignments.

You can submit the assignment in hard copy or by email. If submitting a hard copy, always include at the top of the page your last name, class number and section, and assignment number. Please staple all pages together. If using email, you should always CC the grader and yourself when submitting the assignment so you have a copy of what you have submitted. In the subject line of your email always include your last name, class number and section, and assignment number.

School policies:

Online Instructor Evaluation

Course and instructor evaluations are critical for maintaining and improving course quality. To make evaluations as meaningful as possible, we need 100% student participation. Therefore, participation in the School’s web-based academic administration initiative during the eighth and ninth week of this course is a requirement of this course. Failure to participate in this process will result in a grade of incomplete for the course. This incomplete will be automatically removed within seven weeks after the end of the course and replaced by the grade you would have received if you had fulfilled this requirement.

Email

Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at http://campusconnect.depaul.edu is correct.

Plagiarism

The university and school policy on plagiarism can be summarized as follows: Students in this course, as well as all other courses in which independent research or writing play a vital part in the course requirements, should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work a report, examination paper, computer file, lab report, or other assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

Incomplete

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the School of Computer Science, Telecommunications and Information Systems. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.