CS 130—Discrete Structures
Fall 2011
TuTh 8:00 AM–9:50 AM, Room 8-345

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MWF 10:30 AM–12:00 PM
TuTh 10:00 AM–12:00 PM

Text Book

Judith Gersting. *Mathematical Structures For Computer Science. A Modern Approach to Discrete Mathematics.* 6th ed. W.H. Freeman and Company. ISBN: 978-0-7167-6864-X.

Grading

Exams 70%
    Midterm (tentatively Tuesday November 1) 35%
    Final (Tuesday December 6, 7:00 AM–9:00 AM) 35%
Homework 30%

The overall course grades will be assigned according to the curve of weighted average percentages, with the median student typically earning a C+.

We will have roughly one homework per week. Homework will be accepted without penalty at any time on or before its due date. Submissions after the due date will each have their score reduced by $10(n+1)\%$, where n is the number of school days properly between the due date and date submitted.

Note that plagiarism in a math class is pretty pointless. If you copy incorrect work, it will be blatantly obvious and you'll be penalized. If you copy correct work but don't understand it, you'll just do that much worse on the exams.

I will accept homework by email as a submission of record, but must subsequently receive an identical paper submission by the next class session. If I do not, or if I receive a modified paper submission, the late penalty will apply as described. If an email submission is not received or is lost for *any* reason, it will be treated as if never submitted.

There will be no make-ups for exams without prior approval.

Coverage

The course will cover most of the topics in Chapters 1–5 of the text, as well as Chapter 7.1. Time permitting, further topics may be covered. The main material includes:

- Formal logic (Boolean algebra, propositional logic, predicate logic)
- Proof techniques
- Recursion and induction
- Sets and counting
- Relations and functions