

# CS 130—Discrete Structures Winter 2012

MWF 9:15 AM–10:20 AM, Room 8-348

Alex Vondrak  
ajvondrak@csupomona.edu  
www.csupomona.edu/~ajvondrak/cs/130

Office 8-39  
☎ (909) 869-3449  
MWF 1:00 PM–3:00 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 Friday February 3) .....	35%
Final (Monday March 12, 9:10 AM–11:10 AM) .....	35%
Homework .....	30%

The overall course grades will be assigned according to the standard “flat” scale:

A	B	C	D	F
≥ 90%	≥ 80%	≥ 70%	≥ 60%	≥ 0%

However, I reserve the right to curve grades if necessary. Pluses and minuses will be assigned based on how well I feel you’ve done within your grade bracket.

As a rule, late homework will not be accepted. Anything turned in more than 5 minutes after the beginning of class will be considered late.

You may work with others to figure out how to do the homework, but be sure to work on your own when writing the problems up. Rule of thumb: discussing is okay, but do not ask to look at someone else’s homework, and do not offer to let others look at yours. If I suspect two assignments are copies of each other, both will receive scores of 0.

Plagiarism is a bad value proposition anyway. If you copy incorrect work, it’s usually obvious. If you copy correct work but don’t understand it, you’ll do that much worse on the exams.

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. The main material includes:

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