

Slide 1

### Administrivia

- (None today, but this is where I'll remind you about upcoming deadlines.)

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### Syllabus / More Administrivia

- One purpose of the syllabus is to spell out policies, especially about:
  - Course requirements and grading.
  - Exam dates (can only be changed if you all agree). “Please plan accordingly” means “don’t schedule something else for these dates”.
  - Late work.
  - Academic integrity.
- Most other information will be on the Web, either on my home page (office hours) or the “course Web page”.
- Part of my job is to answer your questions outside class, so if you need help, please ask! E-mail usually works well if office hours don’t.

### A Few Words About Computer Use in Class

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- Checking your e-mail when you first get here is okay.
- Taking notes online is okay.
- Surfing the Web or playing games during lecture is not okay.
- Remember that I can lock all screens, project what's on one student's screen, etc. — and I will if need be. But I'd rather you'd all be responsible enough to resist this distraction!

### “Why Do I Have To Take This Course?”

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- It's “math for CS majors”: We want to teach you basic concepts in addition to technical skills. For this you need some math background — or at least a bit of “mathematical maturity”.
- Odds are good you *will* need material from this course in other required courses.
- “Because we said so.”
- It might be fun.

### Course Topics

- Formal logic — as an example of a “formal system”, to help with boolean algebra.
- Proof techniques — induction in particular is useful in CS, and we’ll talk a little about proofs of program correctness.
- Recursion.
- Sets, counting, and probability.
- Relations, functions, and order of magnitude of functions (“big-O notation”).
- Graphs and trees.

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### Minute Essay

- What are your goals for this course?
- Thinking about all the math courses you’ve ever taken:
  - What topic(s) did you particularly like or find useful?
  - What topic(s) did you particularly dislike or find confusing or not useful?

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