

First day

NOTE01: Our first day of class

Attendance ~ Syllabus ~ Office hours

Goals: 1) Solve some problems, 2) Learn a little about how computers work

CSC 220 is a tall, thin course. It's more practical than theoretical.

Some teaching blurbs:

- Sophocles rules - "One must learn by doing the thing; for though you think you know it you have no certainty, until you try."
- Lecture stinks - but working through the questions/problems together is great! You read and prepare for class. I will make our class as interactive as I can.
- Memorization meh - one page of notes for exams
- Handouts - I get paid by the handout.

"Hardware and software are logically equivalent." [page 8] Algorithms!

CSC 220 learning highlights:

- Design combinational logic circuits
- Design sequential circuits
- Design and simulate circuits in Verilog HDL
- Understand memory circuits
- Understand datapath design: RISC vs. CISC, caching, pipelining, etc
- Write assembly code
- Assembling, linking, loading
- Survey of past and current tech

Some first day blather for you: How does your computer add? How does it multiply?

What is a transistor? Why bits? (why not trits?)