

CS/COE 0447

Introduction to:
Introduction to
Computer Architecture

Welcome

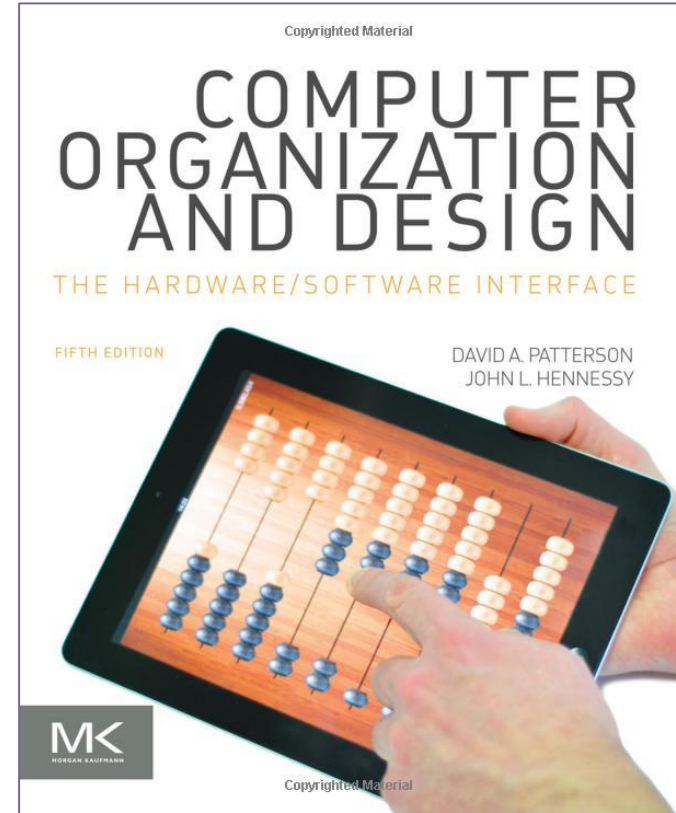
- Hello!
- I'm Wilkie.
- I'm currently interested in Distributed Systems and Software Preservation.
- I've worked on Social Networks, Embedded Systems, Operating Systems, and Virtualization-based software archival.
 - (I have a full-time job. Bear with me.)
- Traditional Computer Scientists think I'm "weird" I think
- I really like teaching. (taught CS 7, CS 1651 and TA'd 447/449)

All the fun Day One things...

- This is Introduction to Computer Architecture CS/COE 0447 !!!
- Course website: <https://wilkie.github.io/cs447/>
 - Schedule
 - Syllabus
 - Announcements
 - **LOOK AT THE WEBSITE**
- Office: 5415 Sennott Square (across from the mail room)
- Office Hours: TBA (Likely right after class time)

The Textbook

- Computer Organization and Design; Fifth Edition
- David A. Patterson, John L. Hennessy
- Cool chaps, but the book *isn't really that necessary* for this course. (It's a good book, tho)
- It goes into a lot of unnecessary detail. (Better in CS1541)
- I'll point out chapters for 'further reference' but won't assign readings.



Grades

- I don't keep track of attendance
 - But you should come to class!
 - A lot of the concepts, logic design etc, are best demonstrated visually.
- **Labs: 20%** (Two can be dropped, will likely be around 12 total)
- **Projects:**
 - **15%** - MIPS project
 - **15%** - Logisim project
- **Midterms: 30%** (Two midterm exams; 15% each)
- **Final: 20%** (Mostly Cumulative)

Other Important Notes

- Disability Resources / Services:
 - Contact DRS **412-648-7890**; TTY: **412-383-7355**
 - They will email me, and I will listen to what they tell me to do.
- Cheating:
 - First time: 0 on the assignment, project, or exam
 - Second: **Fail the course**. (Applies to **all** involved.)
 - Pro-tip: **DON'T CHEAT**
 - Labs: You can work, optionally, with a partner.
 - The syllabus online has a more thorough policy.
- Conduct:
 - Jokes/comments about sex, gender, race, ethnicity, religion, etc are not tolerated. Includes any online spaces involved.

More Notes about Cheating

- Again, do not cheat.
- I'm not grading projects or labs, but I still look at your work.
- Ask for help (There are PLENTY of resources)
 - TAs and my own office hours
 - Undergraduate Helpdesk (CRC)
 - We want you to succeed!
- I can definitely tell when someone cheats.
 - It is very obvious.
 - **Do not do it.**
 - The University is justifiably strict about it.
- Do not publish your code until **after the semester** (if at all)

Teaching Philosophy / Pedagogy

- I don't like teaching from slides or from a book.
 - You can do that yourself. I prefer *interactivity*.
- I want to demonstrate practical applications.
 - Including humanist and artistic applications.
- I want you to walk away with a direction or goal to do something else.
 - Hopefully you find something to be inspired by.
- I trust my students that they could learn on their own.
 - But don't want them to *have* to do so.
 - Ask questions! Challenge concepts! Ask for help!