Administrivia

CS 3410: Computer System Organization and Programming
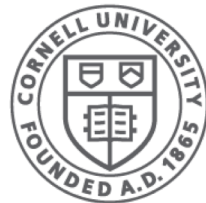
[K. Bala, A. Bracy, E. Sirer, and H. Weatherspoon]

First Clicker Question!

How excited are you to take this class??

A. I've been waiting my whole life to take 3410. I couldn't sleep last night I'm so excited.
B. I'm excited.
C. I've heard good things, but my excitement is on hold.
D. Excited, not sure. Anxious? Yes.
E. Help! I'm a CS minor trapped in this class. Please rescue me. (Seriously.)

Who am I?

Anne Bracy

- Undergrad: Cognitive Science & German
- Masters: Computer Science, NLP
- PhD: computer architecture
- Industry: Research Scientist @ Intel Labs
- Academia: Lecturer @ WUSTL
- Current: Cornell
  - 1110, **2110, 3410**, 4410, 4411

Second Clicker Question

Who are you?

A. Freshman

B. Sophomore

C. Junior

D. Senior

E. Other

How class is organized

- **Before you take this class…**
- Lecture
- Lab Sections
- Office Hours
- Online Tools
- Grading
- Who's Who

Pre-requisites and scheduling (1)

- **CS 2110 required** (OO Programming & Data Structures)
  - Must have satisfactorily completed CS 2110

- CS 3420 (ECE 3140) (Embedded Systems)
  - Take either CS 3410 *or* CS 3420
    - both satisfy CS and ECE requirements
  - *However, Need ENGRD 2300 to take CS 3420*

- CS 3110 (Data Structures and Functional Programming)
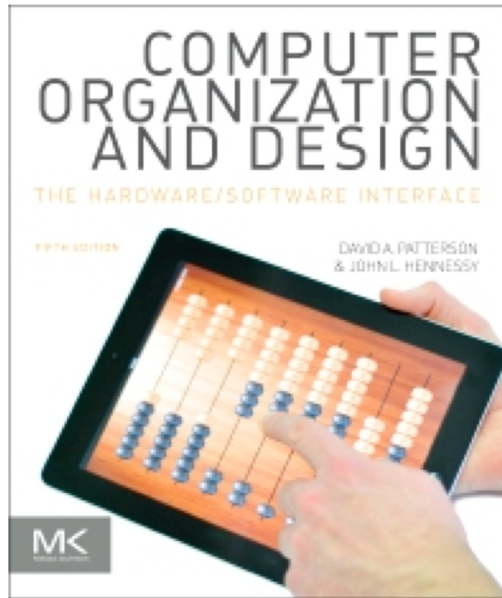 - Not advised to take CS 3110 and 3410 together

Pre-requisites and scheduling (2)

- CS 2043 (UNIX Tools and Scripting)
  - 2-credit course will greatly help with CS 3410.
  - Spring only

- CS 2024 (C++)
  - 1 to 2-credit course will greatly help with CS 3410

- ECE 2400 (Computer Systems Programming)
  - New course started last semester
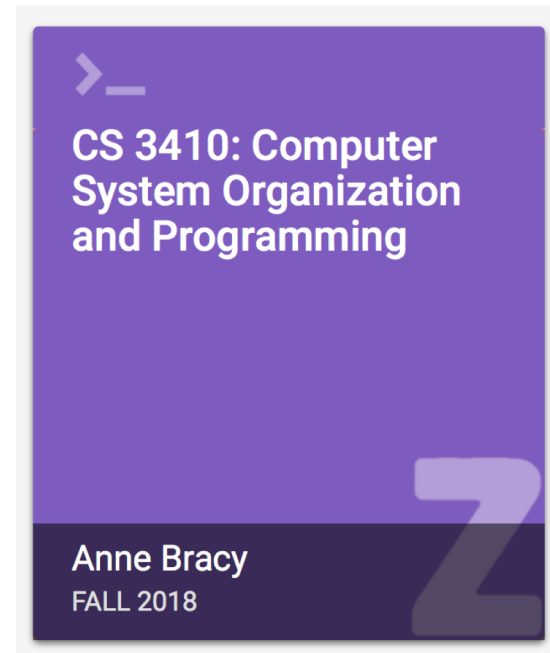 - Lot of overlap with 2110, 2043, 2024, and 3410

Required Textbook

Digital Design + **COMPUTER ORGANIZATION AND DESIGN** THE HARDWARE/SOFTWARE INTERFACE, DAVID A. PATTERSON & JOHN L. HENNESSY = **CS 3410: Computer System Organization and Programming**, Anne Bracy, FALL 2018
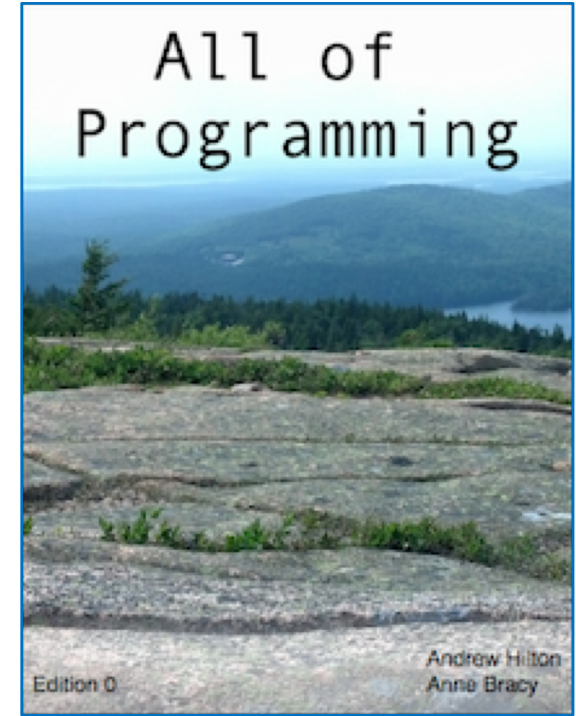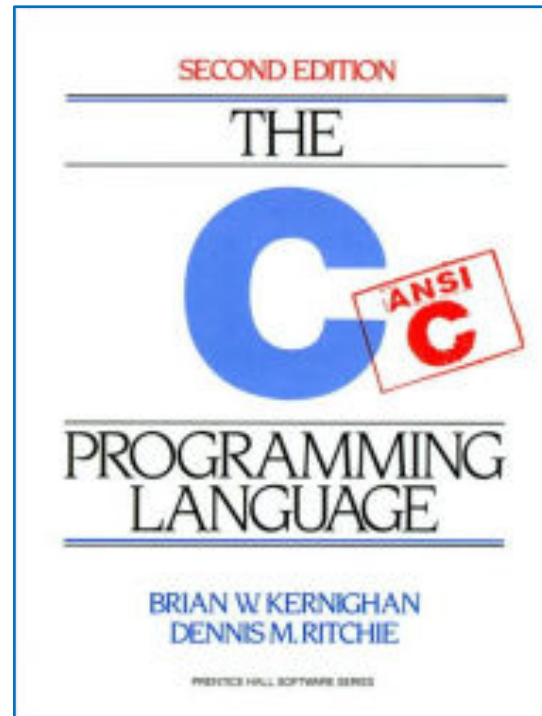
Participation Activities due same day as lecture: by 11:30 AM class (soft) or 2pm (hard).

(Starts next Tuesday.)
Challenge Activities not required unless you are told otherwise for Lab Section.

C Resources (optional)
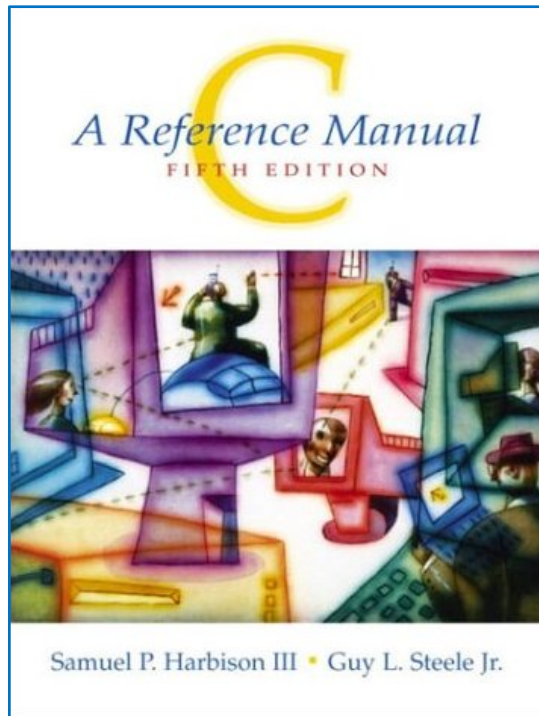
Lectures

- Tuesday & Thursday 2:55-4:10
- Hollister B14
- **iClicker:** Bring to every Lecture
-     (starting today!)
-     missing a few times is okay
- **No cell phones** (except for Reef Polling)
- **No Laptops**

Active Learning

- Interactive Textbook
- Clickers
- Activity Sheets
- Classroom DJ, Breaks
- Autograders
- Lab Sections
- You ask Questions
- I ask Questions

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- **Lab Sections**
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Lab Sections

Located in Carpenter Blue Room (104). Lab Sections begin on Tuesday, August 28.

Section	Day	Time
201	Tuesday	11:40-12:55
202		1:25 - 2:40
203	Wednesday	11:40-12:55
204		1:25 - 2:40
205	Thursday	11:40-12:55
206		1:25 - 2:40
207	Friday	11:40-12:55
208		1:25 - 2:40

There is a Lab 0. It will go live shortly. Due Sunday.

Office Hours

My Office Hours:

- Tues/Th 4:10-5:00 (starting here and migrating back to Gates 452)

TA Office Hours:

- Always in Gates G19
- Every day of the week
- See Google Calendar
- Start *Sunday*

Course Staff page is in the works

Communications

Piazza

- Announcements posted here
- 99% of all matters can be handled here
  - Please read the "Rules of Engagement" post
  - Private messages: visible to *all* instructors & staff
    - No private messages visible to only a subset of staff
    - No other contacting: email addresses, facebook, texting, *etc.*

- **Time sensitive** matters: email cs3410-staff@cornell.edu. The fastest way to get a response.
- **Sensitive** matters that must be handled exclusively by the instructor, email cs3410-prof@cornell.edu or come to OH.
  - Please do not email me personally; I teach multiple classes and my inbox can get overwhelmed.

Personal Emergencies

- Please email cs3410-prof@cornell.edu

- Get Help
- Get Documentation

- **The earlier the better**

Online Tools: Website

- Office Hours Hours
- Schedule with Lecture Slides
- Resources: Logisim, VM, csug access, etc.
- Submit to CMS

- This class is relentless.
- Stay on top of it!

Course Management

- Github for assignment dissemination
- CMS for submissions & grades
- **Blackboard for iclickers only**
- Gradescope for exams

Labs & Projects

Labs Assignments

- Weekly
- To be done in lab

Projects

- 6 Projects
- Mostly Done in Pairs (only P3 is individual)
- You will have a different partner for each project; this partner will be assigned to you from the students in your Lab Section.

How to be a good partner

- Go to Lab Section, meet your partner
  - PairUps on the Schedule
- Make a Partner Contract
- Work together, respectfully
- After the project, submit an evaluation

Exams

- 2 Prelims
- Dates are firm, but there is an early exam if you have a conflict with a smaller class

Administrative Assistant:

- Jenna Edwards <jls478@cornell.edu>, Gates 401
- Please give accommodation letters to her within the first 2 weeks

Grading

Approximately:

- Labs*   10%
- Zybook   10%
- Participation   10%
- Projects   35%
- Prelims   35%   (15, 20)

*completion and attendance

Late Policy

- Each person has a total of **6** "Slip days"
- Max of **2** slip days for any project
- Cannot **ever** submit later than 48 hours late
- Tracked by CMS, which knows no mercy
  - For pair projects, slip days deducted from all partners
  - 25% deducted per day late after slip days are exhausted

Cannot use on: Project 6 or Labs
(Lowest 2 lab scores will be dropped.)

Regrade Policy

If you feel that your assignment was not graded according to the stated rubrics, you may submit a regrade request within 1 week of the assignment or exam's return.

Not for disagreements about the rubrics themselves.

Who am I, Revisited

Nice *and* a vertebrate:

- **Piazza posts** about course material *very welcome*
- Visits to my office hours *very welcome*

- Correspondence about use of slip days, your alarm clock, your all-nighters, your alcohol intake, your car battery, *etc. etc.* **not welcome**

- No exceptions
- Deadlines are firm

Academic Integrity

All submitted work must be your own
- Discussions okay (whiteboard rule, next slide)
- Do not look at code that you did not write
- Do not share solutions
- Cite your sources

Project groups submit joint work
- Same rules apply to projects at the group level

Stressed? Tempted? Lost?

Come see us before due date!

Plagiarism in any form will not be tolerated

White Board Rule of Collaboration

- Work on white board, take no notes
- Erase
- Go home, watch an episode of Orange is the New Black
- Code up by yourself

Questions so far?