

# **CS 3410: Computer System Organization and Programming**

**Anne Bracy**  
Computer Science  
Cornell University

The slides are the product of many rounds of teaching CS 3410 by Professors Weatherspoon, Bala, Bracy, and Sirer.

# Who am I? (Part 1)

Anne Bracy

## Career Path

- Undergrad @ Stanford
- Grad School @ UPenn (computer architecture)
- Intel Labs
- Lecturer @ Washington University in St. Louis
- Sr. Lecturer @ Cornell
  - 3410, 4410, 4411

# 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*** (Obj-Oriented Programming & Data Structures)

- Must have satisfactorily completed CS 2110
- *Cannot take CS 2110 concurrently with CS 3410*

## 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 – *sorry, guys!*

## CS 2024 (C++)

- 1 to 2-credit course will greatly help with CS 3410

You are required to buy a Programming in C ebook to be used during lab sections.

# Required Textbooks

Digital  
Design

+



=

Z

Cornell University  
CS 3410 Bracy Fall  
2016: Digital Design  
and Computer  
Organization and  
Design

+ Starting in late September:

C

Cornell University  
CS 3410 Fall 2016:  
Programming in C  
with zyLabs

# Lectures

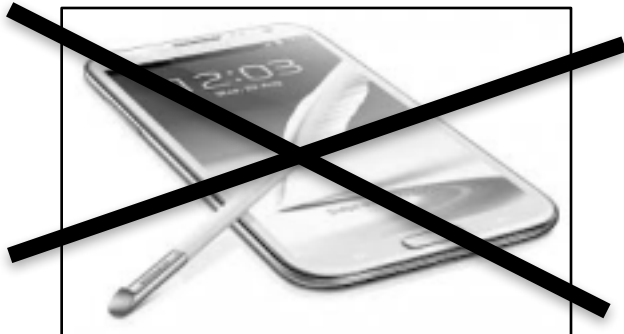
Tuesday & Thursday 10:10-11:25

Hollister Hall B14

iClicker: Bring to every Lecture  
(starting Tuesday August 30)  
missing a few times is okay



No cell phones or laptops.



# Active Learning

- a) Interactive Textbooks
- b) Clickers
- c) Activity Sheets
- d) Lab Sections
- e) You ask Questions
- f) I ask Questions



# How class is organized

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

# Lab Sections

	Tuesday	Wednesday	Thursday	Friday
11:40-12:55	A	D	F	H
1:25-2:40	B	E		
2:55-4:10	C		G	I

- Carpenter Hall 104 (Blue Room)
- Labs Start This Week
  - **Lab 1:** Introduction to Logisim
- Next Week
  - **Lab 2:** Circuits & Circuit minimization

# Office Hours

## My Office Hours:

- To be determined, starting next week
- Start Monday!
- “Holding Court” after immediately class

## TA Office Hours:

- Always in Surge A, Room 101
- Every day except Saturday
- See Google Calendar (soon to be linked on course webpage)
- Start *Thursday*

# Course Staff

There is an army of teaching assistants!

<http://www.cs.cornell.edu/Courses/cs3410/2016fa/staff.html>

Find them on Piazza!

Administrative Assistant:

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

# Online Tools: Course Website

<http://www.cs.cornell.edu/courses/cs3410>

- Office Hours / Consulting Hours
- Lecture slides, schedule, and Logisim
- CSUG lab access (esp. second half of course)
- Finalized Schedule will be up by Friday

This class is relentless.

Stay on top of it!



# Online Tools: Piazza

<http://piazza.com/cornell/fall2016/cs3410>

- **Everything happens here**

## **Do not send email:**

- Guaranteed response “Please post to piazza”
- Redundancy is bad
- Single point of failure is bad
- **private piazza post in “prof-inbox” folder**
  - Better for conversation tracking, “resolved”, etc.

While there: Answer someone else’s question!

# Online Tools: CMS

<http://cms.csuglab.cornell.edu>

- **Assignments submitted here**
- **Grades given back here**

# Lab Sections, Projects, and Homeworks

## Labs Assignments

- Weekly
- Can work in pairs, but submit separately
- Submit in class, upload to CMS by Saturday noon that week  
(Or have solution logged in zybook by same deadline)

## Projects

- 2 Individual Projects: you work alone
- 4 Pair Projects: you work in pairs
- Ideally, find partner in same section

## Participation Activities

- In the zybook
- Deadline before each Prelim to count toward your grade
- Will be released a few weeks ahead of time
- Finish question after covered in lecture



# Grading

Still working out, but something like this:

Labs (work + attendance)	15%
Projects	40%
Participation	10%
Prelims	35%

# Grading

## Regrade policy

- In writing (for exams) or via CMS (everything else)
- Within 1 week of the assignment (or exam)'s return

## Late Policy

- Each person has a total of **four** “slip days”
- Max of **two** slip days for any project
- For pair projects, slip days are deducted from all partners
- 25% deducted per day late after slip days are exhausted
- No assignment accepted more than 2 days late
- Cannot use on Labs. (Lowest 1-2 lab scores will likely be dropped anyway. To be decided and announced later.)

# Who am I? (Part 2)

Nice *and* a vertebrate

- **Piazza posts** about course material *very welcome!*
- Correspondence about use of slip days, your alarm clock, your all-nighters, your alcohol intake, your car battery, *etc. etc.* waste your time and mine
- I do not grant exceptions
- Deadlines are firm

# Academic Integrity

All submitted work must be your own

- OK to study together, but do not share soln's
- Cite your sources

Project groups submit joint work

- Same rules apply to projects at the group level
- Cannot use someone else's solution

Closed-book exams, no calculators

One TA has a dedicated job of maintaining AI

- Stressed? Tempted? Lost?
  - Come see us before due date!

Plagiarism in any form will not be tolerated
--

# Academic Integrity Rules of Thumb

- Code vs. Pseudo-code
- the Blackboard rule of collaboration
  - Work on BB, take no notes, erase, go home and write up separately
- Solutions are hard to un-see

**Questions so far?**