How this class is organized

- Who’s Who
- Before you take this class...
- Lecture
- Getting Help
- Grades & Policies
Who am I?

- BS: Symbolic Systems, BA: German
- MS: Computer Science
- PhD: CIS (Computer Architecture)
- Industry: Research Scientist @ Intel Labs
- “All of Programming”
  Google Play Book & now a Coursera Course
- Senior Lecturer: Cornell: 1110, 3410, 4410, 4411
  ACSU Faculty of the Year 2016, Engineering Teaching Award 2017

**Interests:** microarchitecture, performance, hardware

**Non-geek:** novice runner, intermediate jazz connoisseur, doing cool things in Ithaca with (and without) kids
Who are you?

- Demographics
- 4411?
- Meet your neighbors
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Prerequisites

• CS 3410, CS 3420 or equivalent required

• **Otherwise:** you must contact the instructor, explain your situation and request permission.
Required Textbook

- Operating Systems, Principles and Practice, by Anderson & Dahlin

- Available in bookstore, library, online, and ebook (in 4 volumes)

- Other resources listed on the course website
Lectures

• Tues/Thurs 1:25-2:55pm, Phillips 101

• Electronics policy
  • *No cell phones anywhere, ever*
  • No laptops in the front section, please
  • Studies show that such classrooms without laptops are far more effective

• Please ask questions!
  • Save private discussions for later
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    - Office Hours
    - Online Tools
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Office Hours

• Professor Bracy:
  • Tue/Thu 2:40-3:30
  • Start in Phillips 101, then head to Gates 452

• Course Staff
  • Lots of great TAs this semester (website)
  • Each TA holds 2 hours (also on website)
Online Resources

**Webpage:** [http://www.cs.cornell.edu/courses/cs4410/](http://www.cs.cornell.edu/courses/cs4410/)
- Schedule, exam & due dates
- Lecture notes
- Mostly static

**Github for code:** [https://github.coecis.cornell.edu](https://github.coecis.cornell.edu)

**CMS for assignments:** [https://cmsx.cs.cornell.edu](https://cmsx.cs.cornell.edu)
- Autogrades, Grades, & Regrades

**Gradescope for exams**
- Grades & Regrades
Online Help

Piazza

• For 99% of the communication
  • Private posts should be visible to all course staff
  • Do not contact staff by other means (FB, texts, etc.)
• For help with assignments, concepts

**cs4410-staff@cornell.edu**: time sensitive matters
• Goes to Professor Bracy & course staff leads

**cs4410-prof@cornell.edu**: sensitive matters
• Goes to Professor Bracy

Please no emails to personal email accounts.
## Other Resources

<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engineering Advising</strong></td>
<td>Academic advising for engineering students.</td>
</tr>
<tr>
<td><strong>Arts College Student Services</strong></td>
<td>A listing of general support services for a variety of concerns students may have.</td>
</tr>
<tr>
<td><strong>Gannett</strong></td>
<td>Cornell University Health Service Center. For all health related concerns.</td>
</tr>
<tr>
<td><strong>CAPS</strong></td>
<td>If you experience emotional distress, please contact Counseling and Psychological Services.</td>
</tr>
<tr>
<td><strong>Student Disability Services</strong></td>
<td>Ensures that all aspects of student life are accessible, equitable, and inclusive of those with disabilities. Send accommodation letters to Jenna Edwards (jls478, Gates 401) by Feb 15.</td>
</tr>
</tbody>
</table>

Email cs4410-prof@cornell.edu
Get help. Get documentation. The earlier the better. (Graduating?)
Also, please look out for each other.
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Course Content

• Three Components
• Lectures and Readings
• Exams
• Assignments

You are expected to keep up with all three
Draft Syllabus

- Introduction
- Architectural Support for OSs
- Processes and Threads (A1)
- Scheduling
- Synchronization (A2)
- Deadlocks
- Memory Management

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3/15: Prelim 1
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- Virtual Memory
- Networking (A3)
- Disks & RAID
- Filesystems (A4)

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4/26: Prelim 2
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- Security

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5/22: Final Exam
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Grading Policies

Late Policy
• Each person has a total of 4 “Slip days”
• Max of 2 slip days for any assignment
• Cannot ever submit later than 48 hours late
• I really do not budge

Regrade policy
• Within 1 week of assignment (or exam)’s return

A word about autograders
Semester Grades

45%  Assignments
50%  Exams (best 2 of 3*)
  5%  Altruism Points

• Goal is to give everyone an A
• Help us achieve this

Please note how LATE the Final is!
If you have to leave for an internship, this will be the exam grade that we drop.
Altruism Points

Once this semester, contribute to the education of your fellow class members

Examples (be creative!):

- **Helpful & Thoughtful** post on piazza
- Elite Piazza answerer
- Make a video that explains a concept
- **Good explanation** of a practice exam question
- Share code that illustrates a cool concept
- Research something left unanswered
- use `alt` tag on piazza when possible
Academic Integrity & Honor Code

Closed-book exams, no calculators/phones
All submitted work must be your own
• OK to discuss concepts together
• White/black board rule (work, erase, wait, code)
• Cannot be in possession of other’s solution
• Do not look at code that is not yours
  – a friend’s or online
  – what is seen cannot be unseen

Violations will be prosecuted