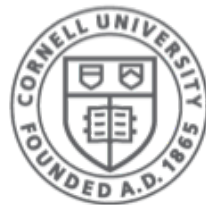




Administrivia

CS 4410
Operating Systems
Spring 2018
Professor Bracy



Cornell CIS
COMPUTING AND INFORMATION SCIENCE

[R. Agarwal, L. Alvisi, A. Bracy, M. George, E. Siroer, R. Van Renesse]

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

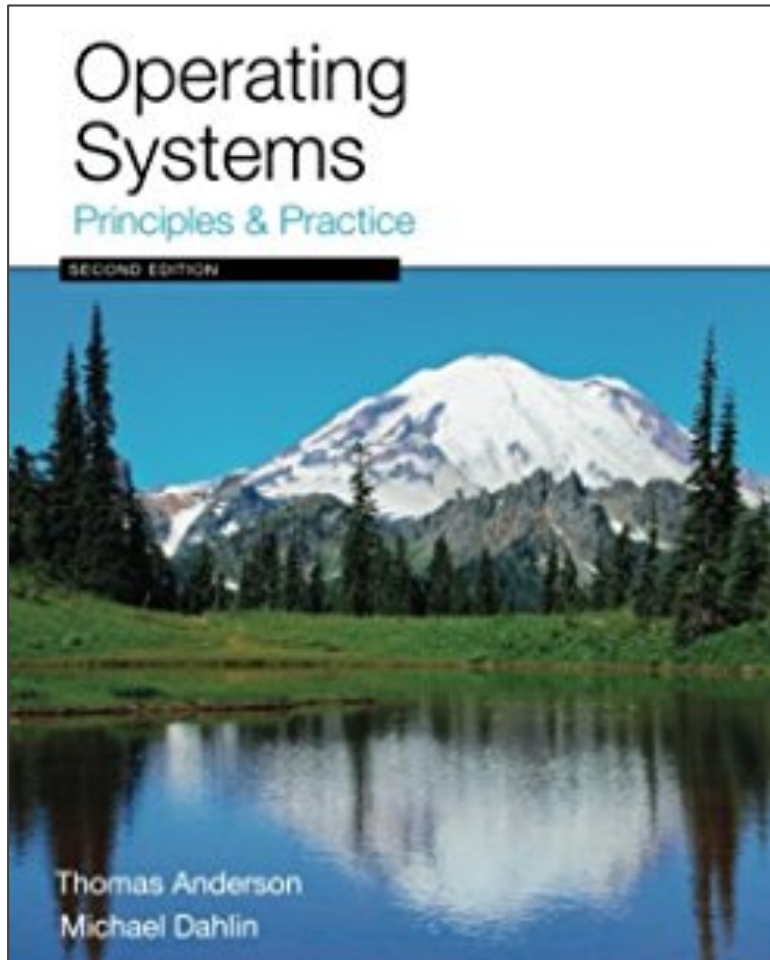
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Prerequisites

- 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
- Grades & Policies

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/>

- Schedule, exam & due dates
- Lecture notes
- Mostly static

Github for code: <https://github.coecis.cornell.edu>

CMS for assignments: <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

<u>Engineering Advising</u>	Academic advising for engineering students.
<u>Arts College Student Services</u>	A listing of general support services for a variety of concerns students may have.
<u>Gannett</u>	Cornell University Health Service Center. For all health related concerns.
<u>CAPS</u>	If you experience emotional distress, please contact Counseling and Psychological Services .
<u>Student Disability Services</u>	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.

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
-

- Virtual Memory
 - Networking (A3)
 - Disks & RAID
 - Filesystems (A4)
-

- Security
-

3/15: Prelim 1

4/26: Prelim 2

5/22: Final Exam

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