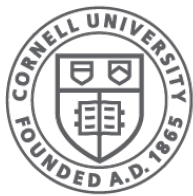




# Administrivia

CS 4411/5411: Operating Systems Practicum  
Fall 2021

Professor Robbert van Renesse



**Cornell CIS**  
COMPUTING AND INFORMATION SCIENCE

# Inclusion

- We strive to make CS4411/5411 a welcoming, safe, equitable, and respectful environment, consistent with [Cornell's commitments](#)
- We recognize that the society we live in is none of those things, that we have implicit biases, and that we have to work hard every day to counter those biases to create an inclusive environment
- If you witness a bias incident or have been the victim of one, please file a [confidential report](#) with Cornell
- If you have any suggestions such as improvements to the web site, syllabi, slides, homework and exam questions, and so on, you can email [cs4411-prof@cornell.edu](mailto:cs4411-prof@cornell.edu) or you can anonymously fill out a [suggestion form](#)

# Emotional Help

Engineering Advising	<a href="http://www.engineering.cornell.edu/resources/advising">www.engineering.cornell.edu/resources/advising</a>	Academic advising for engineering students
Arts College Student	<a href="http://www.arts.cornell.edu/stu-adv/">www.arts.cornell.edu/stu-adv/</a>	Listing of general support services for a variety of concerns
Gannett	<a href="http://www.gannett.cornell.edu">www.gannett.cornell.edu</a>	Cornell University Health Service
CAPS	<a href="http://www.gannett.cornell.edu/services/counseling/caps">www.gannett.cornell.edu/services/counseling/caps</a>	If you experience emotional distress, please contact Counseling and Psychological Services
Student Disability Services	<a href="http://sds.cornell.edu">sds.cornell.edu</a>	Ensures that all aspects of student life are accessible, equitable, and inclusive of those with disabilities. Send accommodation letters to Veronica VanCleave-Seeley (vv48, Gates 401) by Sep 15.

Get help. Get documentation. The earlier the better.  
Also, please look out for each other

# How this class is organized

- Who's Who
- Before you take this class...
- Communication
  - Lectures, OHs, FAQ, etc.
  - Getting Help
- Homework, exams

# About RVR

- Ph.D. C.S., Vrije Universiteit Amsterdam
  - Amoeba Distributed Operating System
- Industry: Research Scientist @ AT&T Bell Labs
  - Unix, Plan 9
- Serial entrepreneur
  - Reliable Network Solutions (IP → Amazon)
  - D.A.G. Labs (acquired by FAST, then by Microsoft)
  - Exotanium (ongoing)
- Two daughters and a godson
  - Anneke, Tanya, Christian

**Interests:** scalable and fault tolerant distributed systems

**Non-geek:** musician (trad. jazz), swing dance, unicycling

# TA: Ankush Rayabhari (CS MS student)



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# Prerequisites

- You should either have taken CS4410/5410 or take it concurrently

***Otherwise:*** you must contact an instructor, explain your situation and request permission



# Course Content

- This is a project course
  - Lectures/discussions on Friday afternoon
  - 6 (CS4411) or 7 (CS5411) projects in C
    - queue
    - multi-threading and synchronization
    - multi-level feedback scheduler
    - user-level interrupts
    - make, testing, ...
    - file system cache
    - file system
- No exams, no textbook

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- Homework, exams
- Grades & Policies

# Communications

- Website
- Office Hours
- CMSX
- Ed Discussion
- Email

# Course Web Page

<http://www.cs.cornell.edu/courses/cs4411/>

- Schedule
- Project release and due dates

# CMSX

<https://cmsx.cs.cornell.edu>

- Assignments
- Grades & Regrades

# Office Hours

- RVR: Mon/Thu 2:30 – 3:30pm, Gates 433
- Ankush: Mon/Wed 6pm, Rhodes 402

# Email

For time-sensitive matters, email

[cs4411-staff@cornell.edu](mailto:cs4411-staff@cornell.edu)

(goes to course staff)

For sensitive-matters, email

[cs4411-prof@cornell.edu](mailto:cs4411-prof@cornell.edu)

(goes only to prof)



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# Project Teams

- Each project (except the first) must be done in teams of 3 to 4 students
- You can select your own team
- Or you can let us do it
- Aim to have this done by next Friday
  - queue project must be done individually
  - we can spend a little time after class trying to do the matching

# Team Code of Conduct

- Each student should feel safe, welcome, respected
- *Participate, but don't dominate*
- Be patient
- Respect diverse talents and ways of learning
- Fight your implicit biases

A well-run team benefits **all** participants

# Academic Integrity & Honor Code

All submitted work must be your own

- OK to discuss concepts with any other student
- Teams are not allowed to share code
- One submission per team
- Put your code in a private repo
  - recommend: [github.coecis.cornell.edu](https://github.coecis.cornell.edu)

**Violations will be prosecuted**

# Academic Integrity

## Why not cheat?

- It hurts you in various ways:
  - It reduces the value of your Cornell degree
  - It stresses you out because you might get caught
  - You won't feel good about yourself afterward
  - The energy that goes into cheating is better used for learning
- It hurts other students:
  - It stresses them out
  - By far most students are honest

*If you need help, get it early*

# Grading

- No “curving”
  - CS4411 is not a competition
  - Your grade reflects your learning objectives, not how well you did compared to others
  - Goal is to give everyone an A
- Grade is weighted average of projects
  - Weighing of projects TBD