EE127/227A

Spring 2020

Gireeja Ranade

First lecture plan

Introductions

Administrivia

Optimization

Instructor

Prof. Gireeja Ranade
565 Cory
ranade@eecs.berkeley.edu

OH: 6:30-7:30pm after class on Tuesday

Discussions

Weekly discussion sections conducted by the GSIs

Discussions start on Friday Jan 24.
Discussions start on a Friday cycle.

Choose any one section to attend. Content on Monday and Friday is the same.

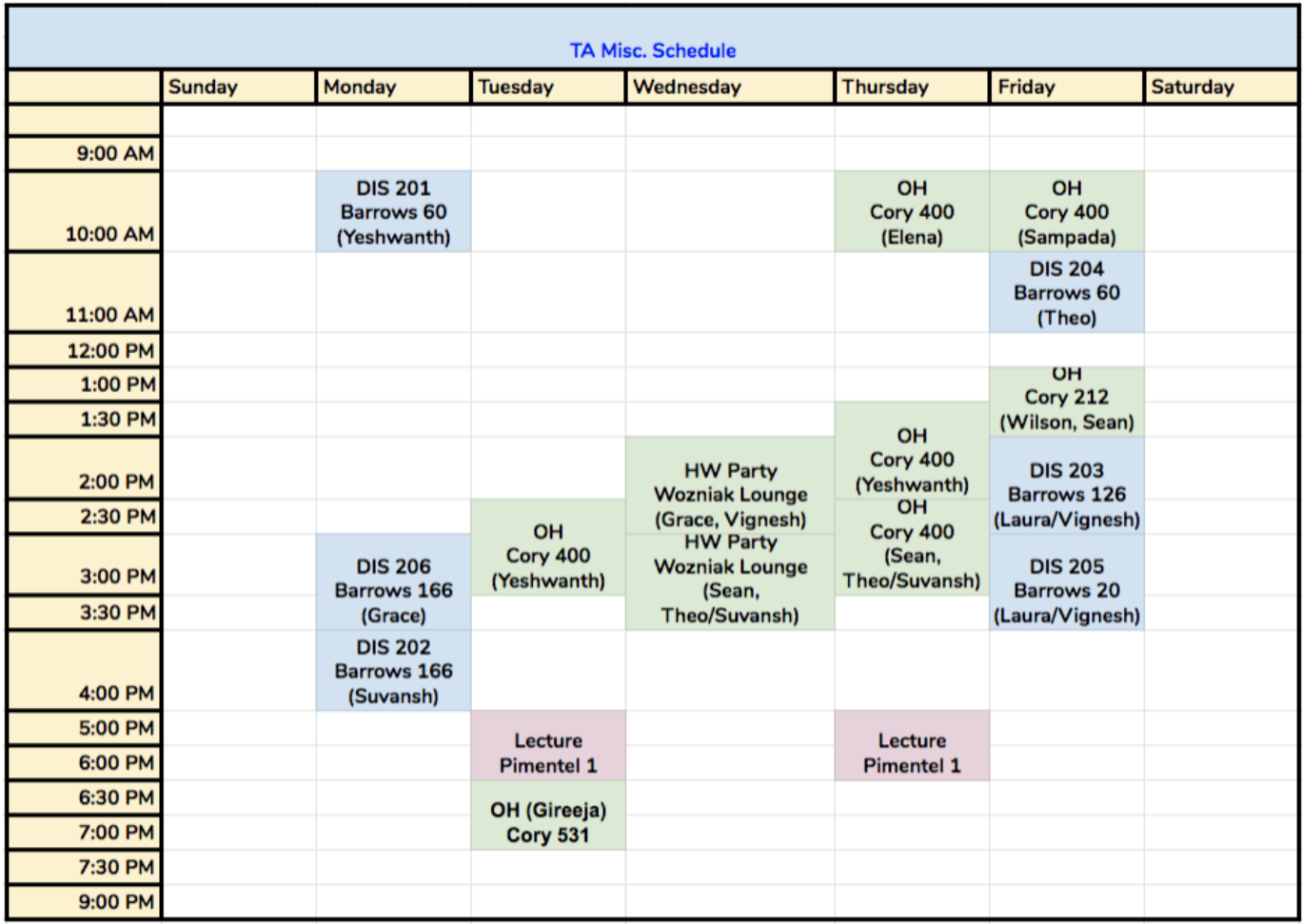
Discussion sections with low attendance may be cancelled.

Shop around to find a discussion and GSI-teaching style that works for you.

Website

eecs127.xyz

Course calendar



TA Misc. Schedule

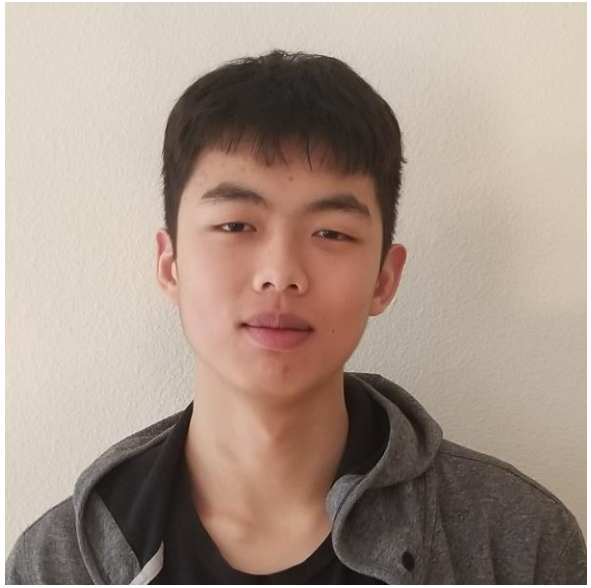
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00 AM							
10:00 AM		DIS 201 Barrows 60 (Yeshwanth)			OH Cory 400 (Elena)	OH Cory 400 (Sampada)	
11:00 AM						DIS 204 Barrows 60 (Theo)	
12:00 PM							
1:00 PM						OH Cory 212 (Wilson, Sean)	
1:30 PM					OH Cory 400 (Yeshwanth)		
2:00 PM				HW Party Wozniak Lounge (Grace, Vignesh)		DIS 203 Barrows 126 (Laura/Vignesh)	
2:30 PM			OH Cory 400 (Yeshwanth)		OH Cory 400 (Sean, Theo/Suvansh)		
3:00 PM		DIS 206 Barrows 166 (Grace)		HW Party Wozniak Lounge (Sean, Theo/Suvansh)		DIS 205 Barrows 20 (Laura/Vignesh)	
3:30 PM							
4:00 PM		DIS 202 Barrows 166 (Suvansh)					
5:00 PM			Lecture Pimentel 1		Lecture Pimentel 1		
6:00 PM							
6:30 PM			OH (Gireeja) Cory 531				
7:00 PM							
7:30 PM							
9:00 PM							

Sean Farhat

- 4th Year Undergraduate
- sfarhat@berkeley.edu
- Favorite part of 127: modelling things as optimization problems
- Do research with Laurent El Ghaoui's group on implicit deep learning (basically just applying stuff from this class to deep learning)

Wilson Wu

- **Third Year EECS Undergraduate Student**



- **wilswu@berkeley.edu**

Elena Jia, uGSI

Undergraduate CS & Applied Math student

yiranjia@berkeley.edu

Tel: 510-993-8347

Yeshwanth Cherapanamjeri

- Name: Yeshwanth Cherapanamjeri
- Email: yeshwanth@berkeley.edu
- Hi! I'm a third year graduate student in Computer Science worki theoretical algorithms, statistics and optimization.

Getting help

- In class, in discussion, OH and HW party
- Technical questions: Piazza (monitored by instructors and GSIs)
- Logistics: ee127227sp20@gmail.com
  - Personal questions not for Piazza, any conflicts or emergencies, administrative questions
- Each other!
  - Diverse class
  - Be compassionate, help each other out

Should you take this course?

- Prerequisites
  - EECS16A AND 16B
  - CS70
  - Math 53

- Mixed and diverse class --- grads and undergrads
  - You have to take the initiative to fill in any gaps
  - We are here to help

Concurrent enrollment

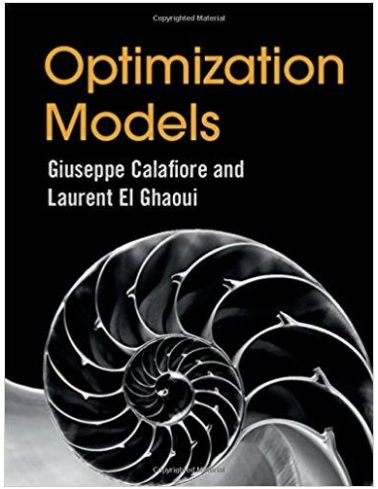
- We expect that all students will get into the class

Resources

Optimization Models, G.C. Calafiore and L. El Ghaoui, Cambridge University Press , October 2014

Set of reference slides (uploaded on website)
The course will not follow these slides,
but they may be useful for your reference

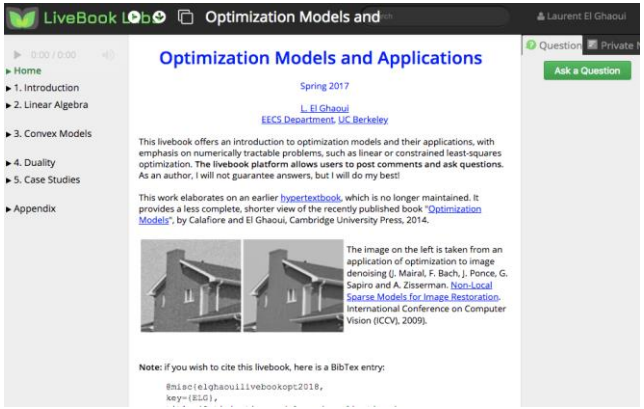
Convex Optimization, Boyd and Vandenberghe
(Available freely on the web)



Resources

"Livebook"

- Hypertext where users can post comments / ask questions
- Available at http://livebooklabs.com/keeppies/c5a5868ce26b8125
- Simplified version of Book, Slides



Resources

This class comes with an integrated set of material

- Books
- Set of slides
- Livebook
- Discussion session notes
- Homework aligned with material taught in class

Homework policies

For completing the class you need to turn in homeworks

- Weekly homework assignments
- Due every Friday at 11 pm
- Submission on Gradescope

- Homework party Wednesday 2-4 pm
- Attend uGSI/GSI office hours and Homework party for help!
- Work in groups and don’t procrastinate!
- Collaboration is welcomed, but each homework must include the names of your collaborators
- Cheating will not be tolerated
- Lowest two HW scores will be dropped

Homework submission process

For completing the class you need to turn in homeworks through gradescope: https://www.gradescope.com

- Once you make an account, click “Add a course”
- Our course entry code is: MYJ5YZ

Self-grades: To get credit on the homework you must also turn in self-grades for the homework, due the following Friday at 11 pm.

Accommodations

- Please send us your DSP letter as soon as possible.
- We need time to provide accommodations, so please get the letters to the teaching staff (ee127227sp20@gmail.com) in the first two weeks of class.
- With the letter from the DSP, we know exactly what to do, and we can ask for the resources to do it.
- Talk to us ahead of time.
- Share your concerns.
- We will do everything we can to help, tell us how to help you.

Other personal needs

Let us know

- In person in OH
- On email

Exam policies

There will be 1 midterm (TBA, likely week of March 9) and 1 final.

- The final will be a standard 3 hour written final in the appointed exam time slot.
- We will allow each student one, double-sided (handwritten) cheatsheet of notes for each exam.
- There will be no make-up exams

Projects

- New this semester
  - We will have an option to do a project at the end of the semester
  - You may choose to complete a project if you wish
  - Projects will be announced in the last two weeks

Grading system:

We will assign you the **maximum** of the grades from the following two computations:

Option 1:

- Homework: 30%
- Midterm Exam: 25%
- Final: 35%
- Project: 10%

Option 2:

- Homework: 30%
- Midterm Exam: 30%
- Final: 40%

Cheating

Throughout the semester, you are encouraged to collaborate with other students in the class. However, directly copying from your peers' assignments will not be tolerated. Here we give our formal definition of cheating in this course.

CHEATING:

Turning in work done by another person as if it were your own.