

Welcome to C106A/206A!

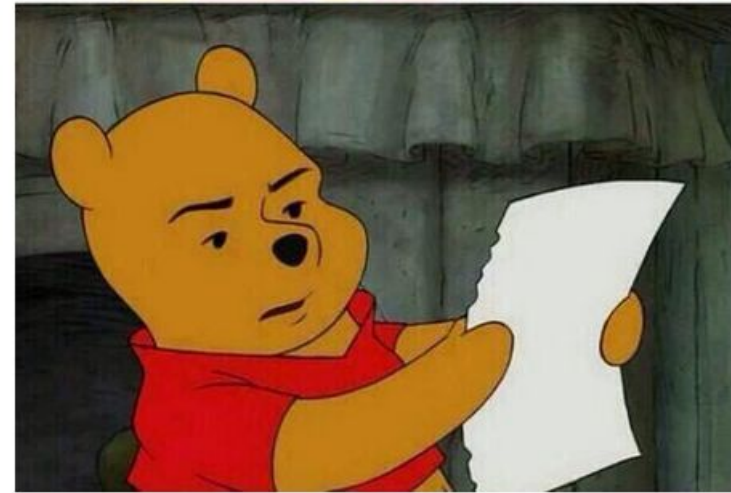
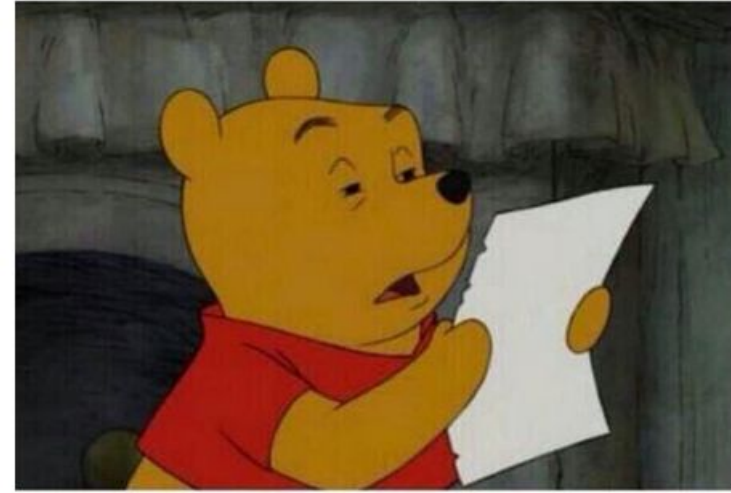
Introduction to Robotics

Professor Shankar Sastry

Head TAs: Amay Saxena, Tiffany Cappellari, Jaeyun Stella Seo

Looking at that first syllabus like

Course Logistics



Prerequisites

- Knowledge of **linear algebra**
- Programming in **Python**
- **Curiosity** about how things work
- Interest in **experimental work**
- **Willingness to explore**

EE 120 is not a hard prerequisite

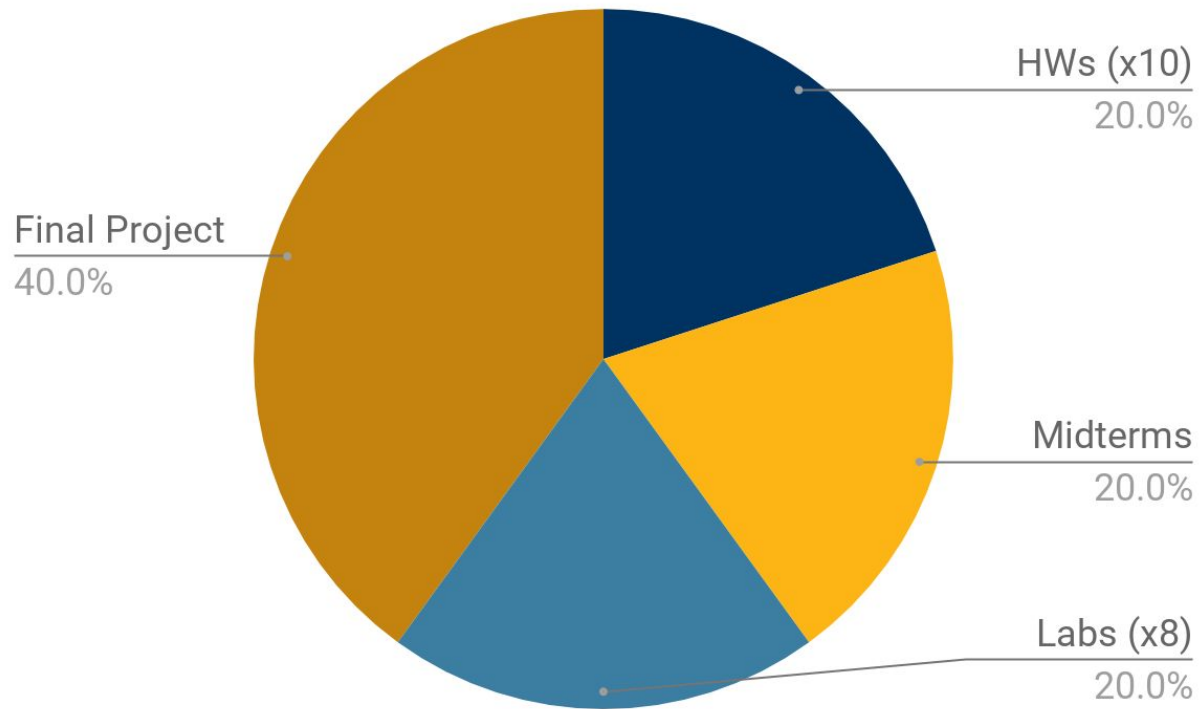
Course Resources

- Course website: <https://inst.eecs.berkeley.edu/~ee106a/>
 - Lectures, Webcasts, Labs, Homework, etc
- Piazza: <https://piazza.com/class/kdureom7avo7lf>
 - Communication, Questions, Homework Solutions
- Gradescope: Code **MJZ8V6**
 - Turning in homework
- Everything can be completed asynchronously!

STANDARD TIME ZONES OF THE WORLD



Grading Breakdown



Homework Policy

Homework Cycle

- Released Wednesdays @5pm
- HW parties on Fridays, @4-7pm
- Due Tuesdays @11:59pm
- Solutions released Fridays (3 days after due date)
- Through early November
- **HW 0 has been released, including the Syllabus Quiz on Gradescope (due 09/01 11:59pm)**

Slip Days

- Five (5) free slip days! No penalty incurred
- Maximum of two (2) slip days on any one assignment
- Cannot be used on Final Project deliverables

Midterms

- Midterm I: **Wednesday, September 30th at 8pm**
 - Rotations, Kinematics
- Midterm II: **Wednesday, November 18 at 8pm**
 - Jacobians, Dynamics, Controls
- 24 hour window to take the exam, expected completion time ~2 hr
- In-class review session
- Open note & Internet, but not open-peer (Academic Honesty!)
- No final exam

Labs

- Please fill out the [Pre-semester scheduling jamboree!](#) **By 11:59pm tonight** to be assigned a lab
 - Will honor lab partner requests
 - Find a lab partner via Piazza on Friday
- Synchronous students - labs are opportunities to get real-time help
 - Please attend your assigned section to prevent massive delays
 - Labor Day - students can attend any section
- Asynchronous students - Piazza & office hours
- Lab 0 has been released and must be completed by the start of your lab section
- Labs 1 & 2 are due at the start of the next lab

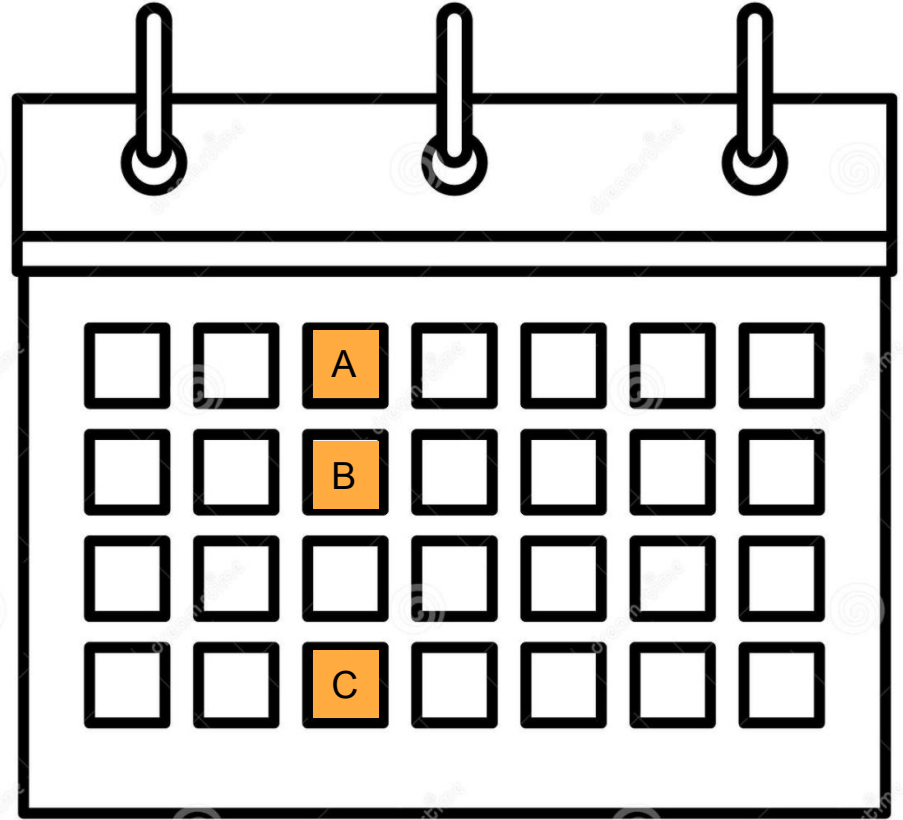
Lab Modules

Week 1: Lab A (odd #)

Week 2: Lab B (even #)

Week 3: Buffer week (full credit for Labs A & B)

Labs A & B due before the lab section for Lab C



Lecture & Discussion

LECTURE

- 3x 20 min chunks followed by 5 min discussion
- Live lecture will be recorded and linked on the website

DISCUSSION

- 1-hr sections dedicated to conceptual help and problem-solving
- 1 section will be recorded and linked on the website
- Start next week (09/04)
- **We will only be able to offer 3 discussion sections**

Office Hours

- Start immediately after lecture!
- Schedule on website: <https://ucb-ee106.github.io/106a-fa20site/schedule/>
- For HW help: Amay, Isabella, Donggun
- For Lab help: Tiffany, Ron, Stella, Jay, Ritika, Kyoungtae
- For Admin help: Stella
- Prof. Sastry best for deep conceptual questions

Final Project

- Not all details have been finalized, but a more concrete description will be announced before the drop deadline
- Simulation Projects
- Design Sprint Projects
- In-person Projects (???)



Final Project Timeline

- Project Ideas: September
 - We'll release a list of project ideas and hold a discussion in early October
- Mini-proposal: October 2
 - We'll review these and schedule individual meetings with each group
- Project Meetings: week of October 19
- Final Proposal and Parts List: October 30
- Project Work: After Midterm 2
- No more homework, discussions, labs
- Demos: December 10 and 11
- Final Reports: December 18

This semester is bananas.



- It's okay to be stressed.
- We're here to help.
- Please communicate with us.