

Operating Systems: Lecture 1

Operating Systems: Lecture 1

Course Info

Grading

Homework

Labs

Exam

Why operating system?

What we'll learn?

Course Info

- **Professor:** Yang Tang
- **Course Website:** <https://ytang.com/cs202>
- **Venue:** CANT 101
- **Time:** TuTh 12:30-1:45pm
- **Prerequisites:**
 - CS201
 - [The Missing Semester of Your CS Education](#)
 - Familiarity with the C programming language in the Linux environment.
- **Office Hour:**
 - Tuesday 3-4pm @CIWW 406
 - Friday 9-10pm @Zoom

Grading

- This course is lab-heavy
- No extra credit. No bonus. No drop. No curve for individual assignment.
- May curve up for the final grade.
- Don't cheat

Homework	10%
Labs	50%
Midterm	15%
Final exam	25%

90–100	A	60–70	C+
85–90	A-	50–60	C
80–85	B+	40–50	D
75–80	B	0–40	F
70–75	B-		

• Homework

- Biweekly "written" assignments
- Graded based on efforts.
- Due Weds midnight
- **Late:** 20 points off for up to 4 days

• Labs

- Programming assignments
- **most important**
- significantly more challenging than others

• Exam

- In-person, closed book, cheat sheet
- Midterm: March 9
- Final: TBA

Why operating system?

- In Computer Science, there're several different field of researches, like algorithms, computing, ai, machine learning etc.
- We are those who work on the systems. System basically means the architecture of the computer, like the hardware.
- Basically, we do the stuff that can support the high-level applications
- If you don't know how operating systems work, you can barely write any efficient code.
- Most challenging course in computer science curriculum since it's not intuitive

What we'll learn?

This is an **introductory** course in operating systems (OS).

We will focus on the **high-level design** of **key OS concepts**, such as...

- Process scheduling and synchronization;
- Deadlocks and their prevention;
- I/O and file systems;
- Memory management, including (demand) paging and segmentation;
- Security and protection (if we have time).