

Course Introduction

usf-cs272-fall2021.github.io

Welcome to CS 272!

While we wait for everyone to join...

- If in-person and have access to a computer..
 - Join Zoom to see chat and shared screen
- Post a hello message to "Everyone" in chat
- Find and use the "Raise Hand" feature
- Respond to poll at [PollEv.com/sjengle](https://www.poll-ev.com/sjengle)



Ask Me (Almost) Anything!

- **r/AMA** (ask me ananything) is a popular subreddit
- Ask instructor **almost** any question (must follow the student code of conduct)
- Ask via **raising hand** on Zoom or in-person, **chat**, or anonymous **poll**: [PollEv.com/sjengle](https://www.poll-ev.com/sjengle)



Why Should You Take CS 272?

- Practice solving complex problems
- Create professional-quality code
- Learn core skills useful for engineers, developers, analysts, architects, administrators, scientists, researchers, managers...
(there is a lot you can do with programming skills)
- Create a full-stack (back-end and front-end) in-memory multithreaded web crawler and search engine

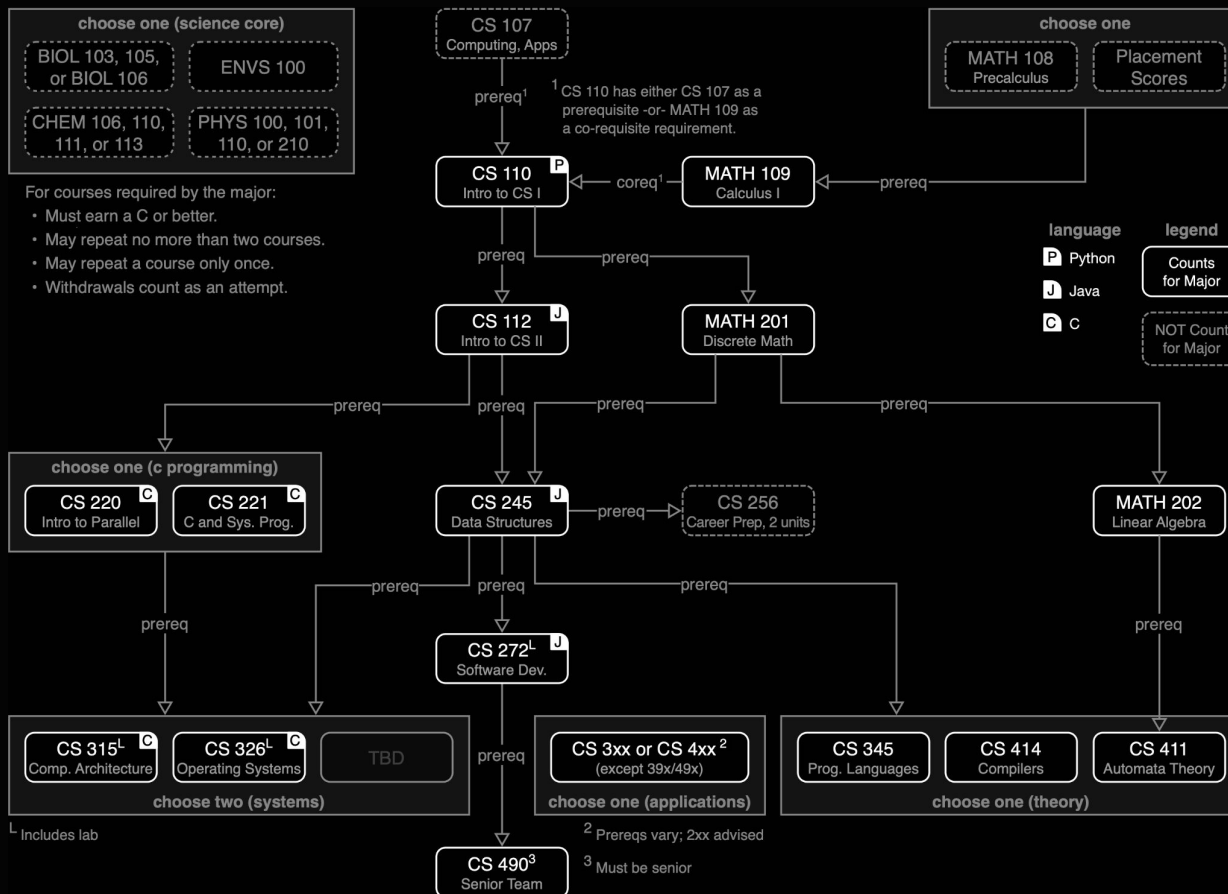
*Also many of you MUST take it for the major :)



Why Should You NOT Take CS 272?

- There is no rush to take the course!
 - You don't need it until the semester before CS 490
- You have a full semester with other courses
 - Avoid too many time-consuming major courses at once
 - Must write THOUSANDS of lines of code for this class
- You want more programming experience first
 - Can take other 200 and 300-level courses before this one





Open Fall 2021 Classes

- CS 221-03 C and Systems Programming
- CS 256-01 Career Prep
- CS 315-03 Computer Architecture
- CS 333-01 Intro to Database Systems
- CS 345-01, -02 Prog Language Paradigms
- CS 360 Data Visualization

*As of 10am Tue Aug 24th



Advice from Past Students



Student Survey Results

Most surveyed students felt that...

- CS 272 was **more difficult** and **more time consuming** than CS 110, CS 112, CS 220/221, and CS 245
- Despite this, CS 212 was **worth the effort**



Student Advice

"The hardest part of this class is to start. Trust me just start early!"

"DO NOT PLAGIARIZE! It is better to submit late!!"

"I highly recommend starting the projects early, or even in chunks! Project deadlines will catch up to you and will add stress to your life as the semester goes on."

Time Management



Student Advice

"Put your ego aside. If you are stuck on a problem, ask for help. You get out of this class what you put in."

"It's never too late to reach out for help. I missed a few deadlines and I felt like it was too late to do anything about it. But the TA's and Sophie are super helpful."

"Work smarter not harder, if you get stuck, just ask, someone is willing to help."

Ask Questions



Student Advice

"It would be to let students coming into this class know they got it. I am a very nervous person, and at the beginning of this class I had almost no confidence in myself. Professor Sophie, and TA's do miles more than enough to help, but each student has to meet them half way! If you give the slightest sliver of effort, I think every student will learn a lot, and flourish in this class."

"You belong here"

Building Confidence



Student Advice

"If you can be engaged and stay one step ahead (*which you can!*), this class is a joy."

"...you will feel amazed how much you are capable of"

"Buckle up, because it's going to be a lot of work, but [this class] will by far be the most rewarding experience of your CS education to date!"

Rewarding Experience



Being Successful

- Manage your time well; start early
- Don't get stuck; ask for help
- You belong here; build confidence
- Have fun; don't forget to sleep



Self-Care &
Community

Ask why.





Breaks



Importance of Breaks

- Research shows that even brief breaks improve focus and downtime helps with productivity and memory
- Opportunity to check in, socialize, and build community
 - Zoom fatigue from virtual interaction is VERY real
 - Social anxiety from in-person interaction is VERY real



Break Activities, Part 1

- Deep breathing exercises or mini-meditation session
- Stretching (wrist, elbows, legs/feet, back) and eye exercises (looking at anything other than device)
- Do something with hands (doodle, knit, fold origami)
- Physically move around and change environment
- Refill water, make tea or coffee, grab a (healthy) snack

Spend ≈10 minutes away from computer or device screen.



Break Activities, Part 2

- Complete related quiz or participation assignment
- Participate in anonymous poll on PollEverywhere
 - Question and comments poll *always* available
- Chat with others in Zoom (public or private) or Piazza or in person

Spend ≈5 minutes on an asynchronous or social activity.



15 Minute Break

- Spend about 10 minutes away from computer
- Complete **Introductions** discussion on Canvas
- Complete **Forum Setup** assignment on Canvas
- Post questions: **pollev.com/sjengle**

15:00
Stop



Course Syllabus

CS 272 Software Development
Professor Sophie Engle

Department of Computer Science
<https://www.cs.usfca.edu/>



**UNIVERSITY OF
SAN FRANCISCO**

Course Websites

- **Simple Syllabus**: Required for official course syllabus
- **Canvas**: LMS used to track assignments and grades
- **Course Website**: Faster (better?) access to course schedule and materials (also links to everything else)
- **Zoom**: Used for synchronous remote interaction (livestreams and recording, labs, office hours, and code reviews)



Course Websites

- **Github**: Version control system used for storing and sharing code, as well as submitting homework and projects
- **Piazza**: Course forums for asynchronous communication, occasionally synchronous in-class Q&A sessions
- **PollEverywhere**: Fully anonymous synchronous polls that do not require course enrollment



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Getting Advice

The following should be STIGMA FREE and will not impact whether or how I provide future recommendations!

- SDS Accommodations
- Policy Exceptions (Extensions, Waived Attendance)
- Withdrawing Class or Switching Majors
- Feeling "Not Good Enough"



Questions?

