Welcome to CS 128 Honors!

Today's Goals

- Introduce Ourselves

- Review Course Goals

- Review Syllabus

William Eustis

- **Computer Engineering - Dec. 2022**
- **Worked for:** Visor, Tallo, COUNTRY Financial, NCSA, ECE Dept.
- **Interests:** Computer Vision, Hardware Accelerators, Teaching
- Likes to Ski

Who are we?

Neil Kaushikkar

- **Computer Science - May 2024**
- **Worked For:** NASA Ames Research Center, COUNTRY Financial
- **Interests:** Systems Programming, CS & Education, Networking
- Instructor at Gies Disruption Lab Incubator
- Adrenaline junkie

What is this course?

As the name suggests, we're the Honors add-on for CS128.

- We follow the CS 128 course through the lens of the **Rust** programming language
- We are a fully student-run course, with a large focus on the course community
- We have a group based final project at the end of the course which is a chance for you to apply Rust to nearly anything you want

What is **Rust**?

- Rust is a programming language
- For six years running, Rust has taken Stack Overflow's top spot as the most loved programming language

Most people take this course because...

- Rust is a super cool programming language
- You want to learn about more topics in CS
- You want to create an interesting project (in Rust)
- You want to meet with similarly passionate classmates

jack ⚡ ✔
@jack

rust is a perfect programming language

1:20 AM · Dec 24, 2021 · Twitter for iPhone

Four Major Course Components:

- Lectures
- Homeworks
- Machine Problems (MPs)
- Final Project

Four Major Course Components:

- **Lectures**
- Homeworks
- Machine Problems (MPs)
- Final Project

Lectures:

- Introduction to Rust
- Ownership and Borrowing
- Threads and Parallelism
- Special Topics

What Do We Teach?

Four Major Course Components:

- Lectures
- **Homeworks**
- Machine Problems (MPs)
- Final Project

Homeworks:

- Very short assignments meant to help you get practice with lecture content
- Usually 1/wk, only for first half of the semester
- Will be on PrairieLearn

What Do We Teach?

Four Major Course Components:

- Lectures
- Homeworks
- **Machine Problems (MPs)**
- Final Project

Machine Problems:

- Longer, more involved assignments that will take around 1-2 hours to complete
- Will be distributed and submitted through PrairieLearn
- Starter code will be provided for you to work locally

Four Major Course Components:

- Lectures
- Homeworks
- Machine Problems (MPs)
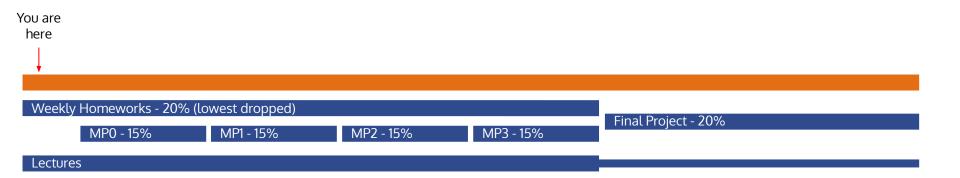- **Final Project**

Final Project:

- 6 week group project
- Groups of 2-4 people
- We grade on functionality, style, codebase quality, and creativity!
- Submitted through GitHub

What is this course?

Four Major Course Components:

- Lectures
- Homeworks
- Machine Problems (MPs)
- Final Project

You are here

Weekly Homeworks - 20% (lowest dropped)

| MP0 - 15% | MP1 - 15% | MP2 - 15% | MP3 - 15% |

Final Project - 20%

Lectures

Communication

- All course-related communication will take place on **Discord**

- We are currently finalizing the hours these will be available
    - This information will be posted in Discord

How do I sign up?

- James Scholars
  - Submit your HCLA with Professor Michael Nowak as the Instructor
  - You do not have to register for the course
- Non-James Scholars
  - Sign up for the course on Self Service.
  - Course name: CS 199
  - Section: 128
  - CRN: 56371

| CS | 199 | Supplementary proj. for CS-128 Lecture | 128 | 0 | 56371 | Nowak, Michael (Primary) |

How do I participate?

Fill out the Google Form!

Link also in description. https://forms.gle/tfDgGYbVPh8CXf8y7

Thank you!

Reminders:

extra/0 credit practice problems that are always open - mention in lecture when each are possible

add github repo with example code from lecture

add easy EC points to MPs - showcase interesting extensions during lecture

whenever we give lecture give them a chapter to follow along with

student interaction in lecture like steltzer- email students if they do well

mention common pitfalls of MPs after due date

partial credit until 1 week after 50%

emphasize early that you will get whatever you put in - lots of opportunities to do more