

# CS 490: Senior Team Project

Lecture 1

# Welcome to CS 490!

- Looking forward to a great semester!
- *Lecture: **MWF** · 1:00pm – 2:05pm · **LME** 1223*
- **Instructor:** [Matthew Malensek](#)
  - [mmalensek@usfca.edu](mailto:mmalensek@usfca.edu)
  - Office Hours: **W, F** 11:45am – 12:45pm in **HR** 407B
- **TA:** Aniket Thakker
  - Office Hours: **Th** 2pm – 3pm

# A Bit About the Course

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- CS 490 is designed to give you experience working as a team on a real-world project
- Sponsors from industry and academia will pitch a variety of projects
  - AI, Web Development, App Building, Blockchains for Social Justice, Cloud Computing, etc., etc.
- You'll form a group with others in the class, get matched up with a project, and spend the semester collaborating and working on it.

# Why This Course is Different

- Everyone will be working on something different!
- You get to gather requirements, design things, and chart your own path.
  - (as long as the project sponsor and instructor like your path! 😊)
- A substantial amount of responsibility is placed on your shoulders
  - You'll need to be self-motivated and stay on top of your work

# Why You Should Take This Course

- It's required. 😊
- You get to have ownership of what you're working on
- It will give you experience doing things that actual software engineers, project managers, testers, operations staff, etc. do.
- Making connections with the sponsor, classmates, and alums / visitors during CS night

# Quick Note: Prerequisites

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- CS 272 with a C or better
- Senior Standing

# Syllabus

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- Let's take a look at the highlights of the course syllabus.

# Updates & Communication

- I regularly update the course website and Canvas page
  - <https://www.cs.usfca.edu/~mmalensek/cs490>
  - Standup meeting schedule
  - Important dates and tutorials
- Grades will be posted on Canvas
- Project deliverables: GitHub
- Q&A, announcements: Slack



# Course Overview

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1. Group Formation
2. Warmup and Tooling Setup
3. Work! (With weekly standup meetings)
4. Midterm Presentations
5. Work!! (With weekly standup meetings)
6. Final Presentations and Project Sign-off

# Grade Distribution

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- Assignments: 5%
- Development Logs and Documentation: 10%
- Weekly Standup: 25%
- Presentations: 30%
  - Midterm: 15%
  - Final: 15%
- Final Project Deliverables: 30%

# Assignments

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- There will be a few assignments throughout the semester
- These will be small and mainly involve setting up tools and practicing a variety of development techniques

# Development Log

- Each team will be responsible for maintaining a development log
- The dev log will track the current project status
  - What was accomplished during each sprint
  - What will happen during the next sprint
- Allows us to track how the project evolves over the semester
- Note: each “sprint” will be a one-week cycle/iteration

# Weekly Standup

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- Your team will meet with the instructor once per week.
- Your grade for each meeting is based on whether you accomplished the tasks you set out to do during the last meeting
  - One of the hardest things in software development is estimating how long things will take
  - Note: your 2 lowest standup scores will be dropped
- Don't get blocked! If you run into trouble, your teammates and the course staff can help.

# Presentations

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- You'll present your work to the class **twice**
  - Once as a progress update in the middle of the semester
  - Once at the end of the semester to show your final product
- Presentations will be peer reviewed and also reviewed by the course staff
  - We look for improvement between the progress update and final presentation

# Final Deliverables

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- You'll turn in the project and demo it with the course instructor
- Your final grade will be based on how well you were able to meet your goals for the semester
- Individual contributions will be graded as well
- The project sponsor will also sign off and evaluate your work

# Final Exam

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There is no final exam. 🎉



# Course Structure

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- Once we reach a steady state (groups set up, initial assignments done, projects selected), there will be a lot of flexibility on attendance
- You will check in with the instructor during a weekly standup meeting (15-20 minutes) and also meet with the project sponsor once per week.
- Generally we recommend meeting with your team during each class time, even if you don't have a standup.

# Questions?

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# Final Business

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- Start working on forming a team...