# Advanced Networking and Distributed Systems

**Case Study: Distributed Education** 

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# We are going Distributed!

The rest of the semester will be online

#### Mix of:

- Live online classes (10AM Tuesdays), typically will be about one hour long. Recordings will be posted after class.
- Videos, made by us and others
- Readings, made by us and others
- **Exercises**, hands-on practice with microservices and distributed systems challenges

#### Let me know (@Tim Wood or timwood@gwu.edu)

- If you will be unable to join live classes
- If you need extra time to complete assignments
- If you are confused or need help!
- If you have any other concerns about the course

## Webex

#### Keep yourself muted

- Don't user raid your hand

But let me know if you can't hear me or miss something!

Use webex chat and/or Slack

## Key Resources

The website will be kept up to date

https://gwadvnet20.github.io/

Check the Tasks page for a list of all remaining assignments

We will give you regular deadlines for assignments, but will be lenient with extensions if you contact us about your special circumstances!

## Participation

Update your profile picture on slack and github.

- Use an image of yourself on Slack, but you can use anything you like on GitHub

Each week you must contribute to the discussion on Slack or in class at least once.

- This is twice as much as was previously required, but I think you are up for it!
- If you are ill, under quarantine, don't have internet, etc let me know and I will make exceptions

There will be bonus participation opportunities

- Watch slack!



#### Ask questions during live meetings

- Use "Raise Hand" in Webex or post to Slack

Ask or answer questions on Slack

Share or comment on distributed systems articles

Come to my virtual office hours

- Most likely in an evening

### Rest of the Semester

Week 11 (now): From Monolith to Microservices

- Go programming project

Weeks 12-14: Distributed Consensus

- Centralized vs Distributed architectures
- How can distributed replicas reach agreement?

Weeks 15: Cloud Services Wrap-up

- Distributed systems in practice

# Go Programming

Lucas taught me Go and VS Code!

https://gwadvnet20.github.io/wiki/go/

Go will be used in two remaining assignments

If I can figure it out, you can too!