## E28 - Class 1

29 Jan 2029

#### What and How

This first class will introduce you to CSCI-E28.

Frame 1: Course, Staff

Frame 2:

Here is the outline

Where are we going? How we get there?

- course mechanics
- context, overview
- operating environment
- our approach

#### Frame 3:

Where are we going?

- by the end you will understand, written, and will know enough to write:
  - [a] the Unix bc tool
  - [b] Internet multi-player bridge
  - [c] Web browswer, server
- What ideas do we need to learn to understand and/or write these?
- Let's start with bridge multiple users, distributed data communication, cooperation, coordination
- Then we look at bc -- seems totally different but in fact, it is like bridge communication, cooperation, coordination
- Then we look at web browser/server two players, communicate, cooperate, coordinate

#### Frame 4:

Course mechanics

- look over the sheet
- explain the way the course works

## Frame 5:

Our first step: Taking the bigger picture Old view: single program in isolation New view: multi user/task/devices

Big idea: operating system - split the work

# Frame 6:

What does this system look like to the user? Login, run, logout storing, getting, putting data files, directories dir commands: mkdir, cd, rmdir, ls, pwd file commands: cat, more, chmod, rm, mv data flow: pipes, <, >

### Frame 7:

Learning by building: let's write more