Before class begins...

Write your name so people can see it, like this:

Ben
Wiedermann

I’ll come by and take a picture of you, too.
Why are you here?
Be earnest!

• Why study computer science? What good is it? Who cares?
• Why did you decide to take this class? What do you want to get out of it?
• Why did you come to this college?
CS 42:
Principles & Practice of Computer Science
CS 42: Principles & Practice of Computer Science
The Principles in CS 42

1. **Theory of computation • Machines** (~4 weeks)
   What do we mean by *computer*?
   Programs $\Leftrightarrow$ Data

2. **Functional programming** (~4 weeks)
   Recursion
   Functions $\Leftrightarrow$ Data

3. **Problem-solving techniques** (~4 weeks)
   How do we match a problem with its solution?
   How good is a solution?
   Algorithms + Data Structures

4. **Object-oriented programming** (~3 weeks)
   How do we structure a program so that it can grow and change?

5. **Logical programming** (~1 week)
   How does language influence thought?
Prior experience: programming languages
I often participate in class.

I tend to dominate group discussions.

I often take notes.

I work better by myself.
I know that I don’t know.
Lecture mode
Discussion mode!
Discussion mode!

(front)
Prepare to present to the class

1. Suggest at least two good practices

2. Identify at least two warning signs

3. Ask at least two “unknowns”
   Conundrums / gray areas
   Questions / confusions
Soundbite syllabus
or is it “soundbyte”?

- One-stop shop: www.cs.hmc.edu/cs42
  schedule, assignments, tutoring hours, syllabus, etc.
- All course communication happens on Piazza
- You can work in pairs on assignments
  unless we say otherwise
- Come to class and participate fully
- There’s lots of support. We’re here for you!
A typical week
Class on Tuesday and Thursday
Assignment due Wednesday at 11:59pm
New assignment available no later than Thursday evening
Tutoring hours every day in the LAC
Office hours Tuesday 2–4 & Wednesday 3–4:30 in Olin 1279

Exams
Take-home midterm 1: October 2–October 9
Take-home midterm 2: November 6–November 13
In-class final: Thursday, December 17 from 9am–noon
Edwards, Macalister, Pryne

Coffee, cool machines (drills, lathes, etc.), other keyboard-free machines

Other physicists, chemists & other parenthesis-needing individuals

CS Hallway and Labs

Big Beckman (B126)

Galileo

Physicists, chemists & other parenthesis-needing individuals

Biologists, bees, spiders and other arachnophiles

Your account for CS submissions?

Password: 

Laptop? Bring it!

Map to CS Lab

Thanks, Prof. Dodds!
There’s already an assignment, and it’s due tomorrow night.
Things to do before Thursday

• Make sure you can sign on to Piazza

• Read the syllabus
  I’ll expect and assume that you have done so
  Ask questions on Piazza

• Respond to the survey
  If you haven’t already

• Picobot assignment due tomorrow @ 11:59pm
  no Euros

• Bring your definition of CS to class on Thursday

• Remember that you’re wearing a name tag!

• Help erase the boards