CSE 1729:Principles of Programming

Lecture 1: Course Introduction

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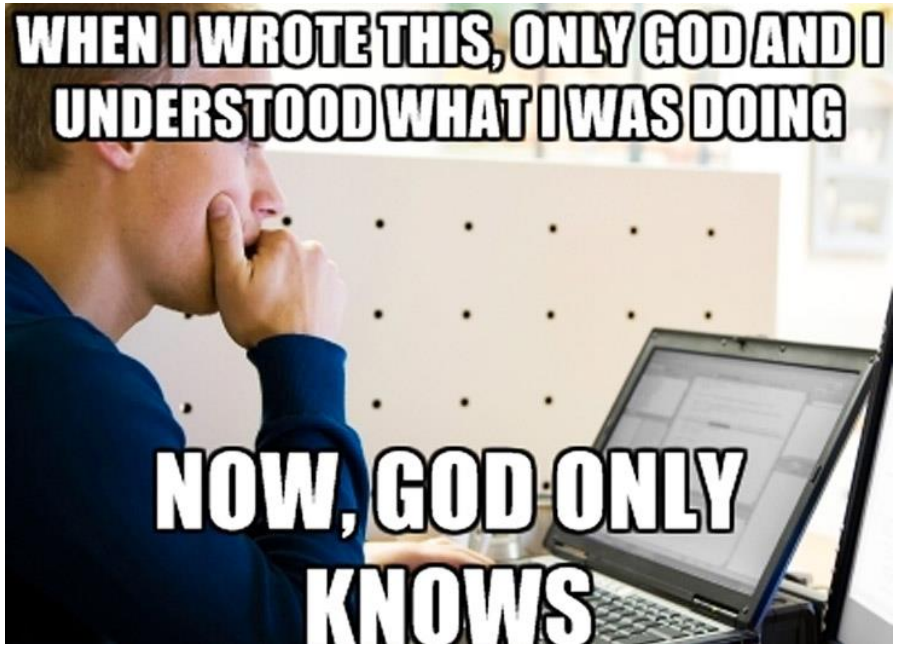
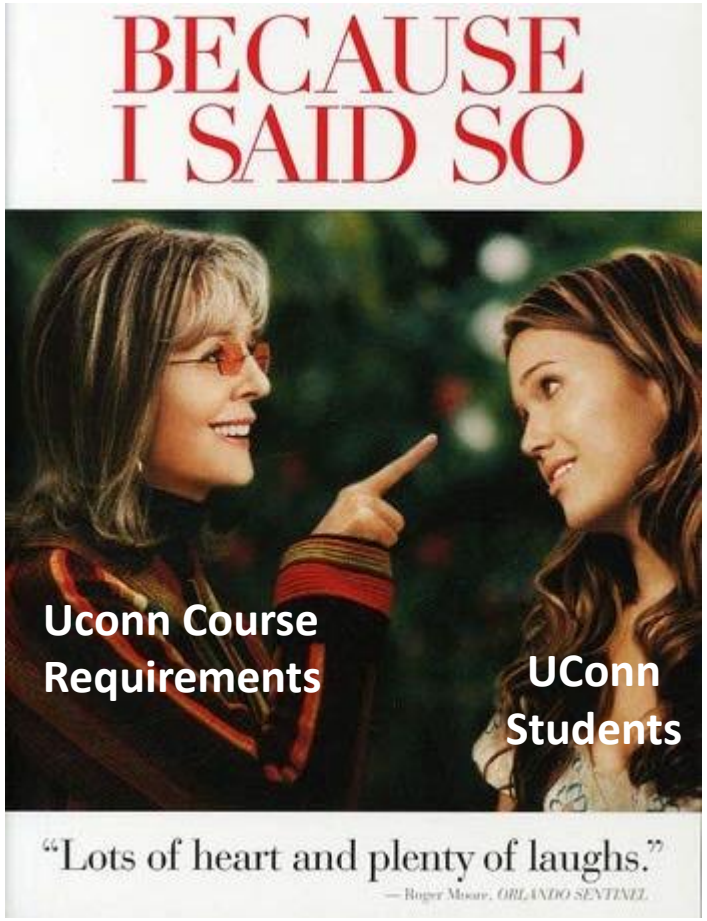
Why are you here?

Learn good programming fundamentals…



Why am I taking this course?



- Knowing theory will help you design better algorithms and write better programs: *BECOME A BETTER PROGRAMMER.*
- The fundamental concepts you learn in Scheme can be transferred to other languages like Python, C++, Java, etc.

Answering some other basic course questions

1. *How will I be graded?*
2. *Do you need to buy a textbook?*
3. *What topics are covered?*
4. *How hard is this course?*
5. *Should I cheat?*

How will you be graded?

Course Components	Weight
Lab assignments	2/9
Problem sets	2/9
Prelim 1	2/9
Final exam	3/9

Labs and problem sets will be submitted through Moodle/Mimir.
Exams will be closed book, closed notes.

NO LATE WORK…but we will drop the 2 lowest homework grades

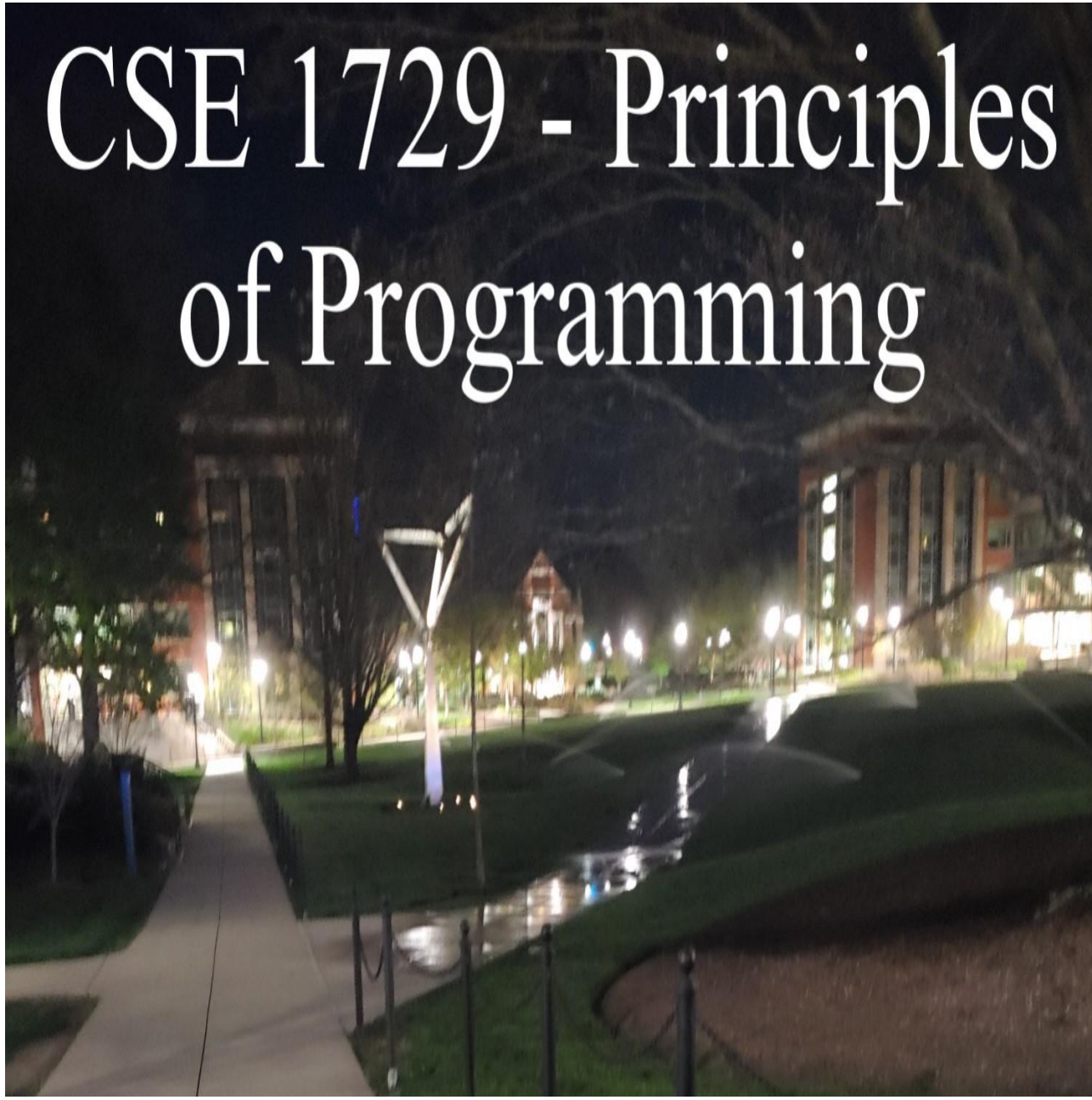
Do you need to buy a textbook?

- **Short Answer**: No only if you want firewood for after the semester ends.
- **Long Answer**: The text is available for free in many forms online:

1. A hyperlinked html version
2. A fancier html5 version.
3. Versions for e-readers.

Preliminary List of Topics

- Data types and variables
- Functions
- Recursion
- Data structures
- Stacks and Queue



How hard is the course?

Answer: It is hard.

Why? The programming concepts take a lot of practice to master.

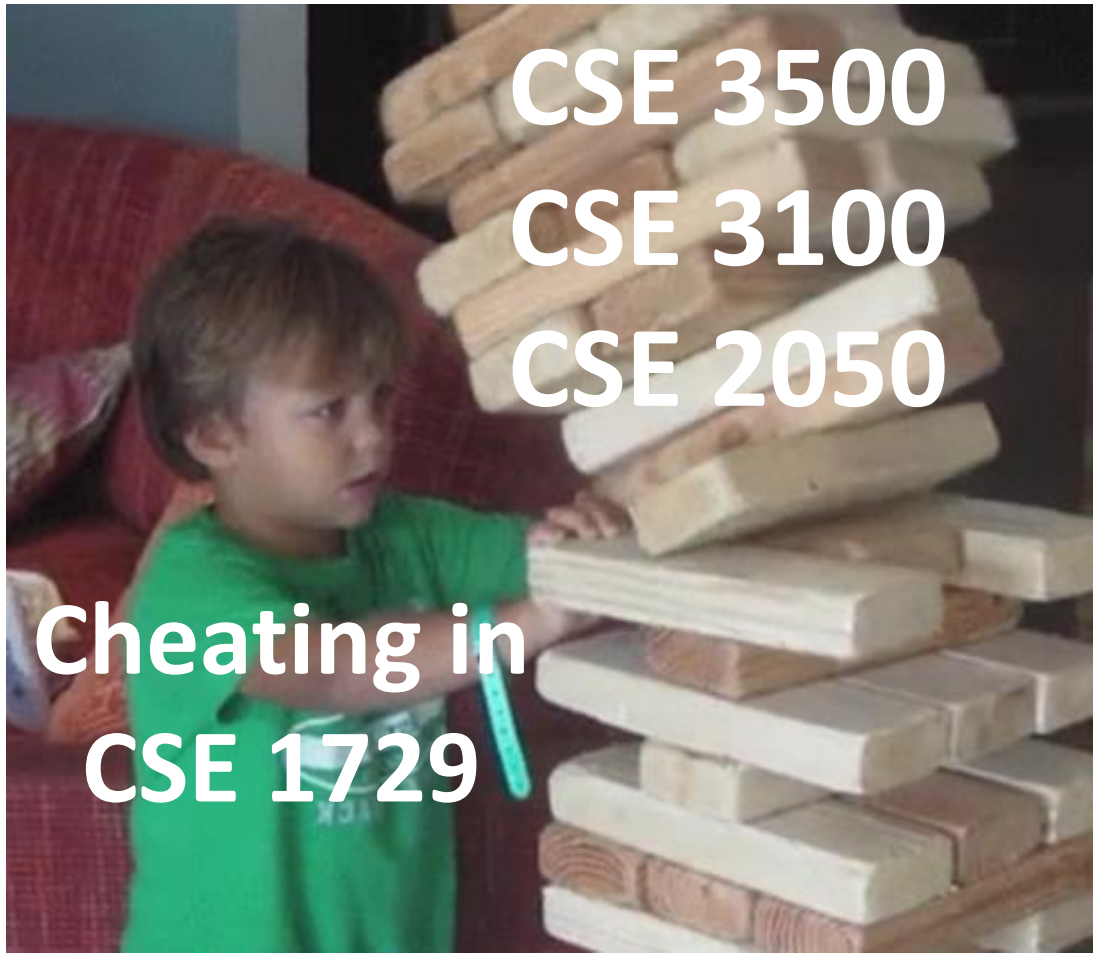
Concepts like recursion are not intuitive. **Even for professors and experienced programmers.**

<u>Expect to devote at least 9-10 hours per week for this course.</u>

We are here to help…

- There is a class discord for ALL sections/lectures in CSE 1729: https://discord.gg/AQCnqHZh
- TAs are shared between all sections/lectures. This means there should be office hours everyday.
- Professors will also have office hours.

Should you cheat?



Most Important Slide!!!

- All homework and labs will be submitted through Moodle/Mimir.
- Please join the course on Moodle so you can get the assignments.
- Moodle Course Link: https://courses.engr.uconn.edu/moodle/course/view.php?id=66
- Permission key is: CSE1729s-”your lab section number” e.g. lab section 008 would be *CSE1729s-8*

Lecture Summary (TL;DR)

1. The textbook is free: hyperlinked html version
2. All class material is on Moodle: https://courses.engr.uconn.edu/moodle/course/view.php?id=66
3. The course is REALLY difficult but…
4. We have a class Discord: https://discord.gg/AQCnqHZh
5. There will be lots of office hours and help!

Questions?

Figure Sources

- https://starecat.com/content/wp-content/uploads/when-i-wrote-this-only-god-and-i-understood-what-i-was-doing-now-god-only-knows-programming.jpg
- https://newfastuff.com/wp-content/uploads/2019/07/zQImpnq.png
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