

CIS 5520

Advanced Programming

Fall 2024

If you are not yet able to
access gradescope, come
see me now!



Course Staff

Instructor: Dr. Stephanie Weirich

sweirich@seas.upenn.edu

OH: *Today 2-3*

Levine 510

TAs: See Ed post:

Jonathan Chan, Mondays 2-3

Gary Chen, Tuesdays 3:30-4:30

Mayank Keolia, Wednesdays, 5-6



Course format

- "Lecture notes" distributed via website & github, one topic per week (today: Basics, next up: HigherOrder)
- Low-stakes, short quiz, one per week (Basics quiz due today, HO quiz due Monday)
- In class exercises (Wednesdays, mandatory attendance)
- Homework assignments due ~biweekly (5 total)
 - HW #1 due next Thursday, **goal: finish half this week**
 - **Grader zipfile format: use submit.sh**
- Final project (your choice) at the end of the semester

Where to go for what

- Public site (<http://www.seas.upenn.edu/~cis5520>)
 - Software set-up
 - Haskell formatted content, HW instructions
- Github organization (<https://github.com/upenn-cis5520>)
 - Code repos for weekly content, in-class exercises & HW
- Canvas
 - Syllabus, links to everywhere else
 - **Intro survey**
 - Ed (Announcements and questions)
 - Gradescope (Quizzes, Homework submission)
 - (limited) Class recordings

Basics: interactive demo in vscode

- What does laziness mean?
- Working with IO in Haskell
- *5-min break*
- quiz: List syntax and typing, list recursion
- Pattern matching & Maybe type (jn example)
- Solving problems via list recursion
 - listIncr, listAdd