People

CPSC 315 Programming Studio

Fall 2011 Yoonsuck Choe

- Professor: Yoonsuck Choe
- Teaching Assistants:
 - Timothy Mann
 - Chris Pu

Background on the Course

- Meant to be a "capstone" to the lowerlevel classes.
- Intention is to give **lots** of programming experience, in a team environment.
- Should be prepared for any programming assignment in upperlevel classes
- Should be better prepared for industry programming jobs (internships/co-ops)

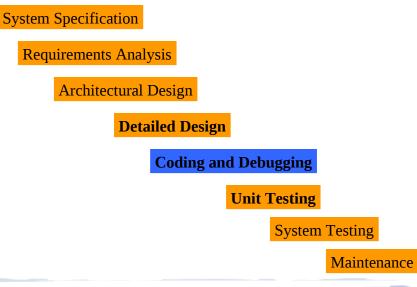
"Studio" Course

- Programming as "art," "science,"
 "engineering."
- The idea of a studio course is to have an environment where students can practice and refine their skills
 - Your skills should markedly improve over the semester
 - You should have plenty of interaction with and feedback from the professor/TA
 - Practice, practice, practice

Lectures

- We'll meet a minimum of 28 class periods (out of 42 total)
 - Expect to meet most dates at the beginning of the semester
 - Will skip lectures later in semester, during projects
 - Will skip lectures when professor travels
- Lectures should be helpful for your programming work

Code Construction



Topics

- Programming techniques and style
- Software design principles
- Basic collaborative programming skills
- Programming tools
- Project-specific subjects

Projects

- 3 projects, each a month long
- Each project will be a team project
 3 people per team
- Might require use of specific tools, languages, approaches
- Topics from range of CS fields
 - Lectures will cover additional material

Lab

- Lab times:
 - TA demos/tools instructions
 - Use as team meeting times
 - Use as instructor meeting times
 - Code reviews

Reviews

- Might include code reviews
- Public review/comments on code/design/documentation/etc.
 - During lab or lecture times
- Programs you work on/submit will not be considered private, for this class
- You might be asked to present your code

Syllabus Review

• Questions?

To Do

- Try out the calculator exercise (individual effort, not to be graded).
- Download and read this article:
 - Don Knuth's Turing Award Lecture:
 - "Computer Programming as an Art"
 - http://doi.acm.org/10.1145/361604.361612
- Also see McConnell chap 2 on metaphors

Credits

- Most of the course material for 315 we will use (including syllabus, slides) during this semester has been developed from scratch by Prof. John Keyser.
- Assignments/project details will differ from the past semesters.
- Long Mai and Allen Hurst at Improving Enterprises provided valuable feedback.