Overview

What is CIS 110? Introduction to programming and computer science.

Goals
- Demystify computer systems: what can a computer do?
- Demystify computer science: what are the intellectual underpinnings?
- Demystify computer scientists: how do we think?

Topics
- Programming in Java.
- Computer organization and assembly language.
- Applications to science, engineering, and commercial computing.

- Albert Einstein

The Basics

Lectures [Benedict Brown]
- Monday, Wednesday, Friday, Wu & Chen, 12 and 1
- Office hours: MW 3-4pm, W 10-11am in GRW 258
- This week only: W 3-5pm, Th 3-5pm
- Email: bjbrown@cis.upenn.edu

Recitations
- Wednesday or Thursday
- Two TAs per recitation: twice the fun!
- Clarify lecture material, tips on assignments, group activities

TA Office Hours (TBD)
- Questions about material
- Help with debugging
- Bring your laptop or use lab computers

Full details and office hours. See www.cis.upenn.edu/~cis110

Grades

Course grades: No preset curve or quota. Typically about half of students receive A- or higher. Many have no prior experience.

- 9 programming assignments 40%
- Recitation attendance and participation 10%
- 2 exams 50%
- Extra credit and staff discretion: Adjust borderline cases

Check grades: Course web site.

Course Materials

Course website [see cis.upenn.edu/~cis110]
- Programming assignments and checklists
- Submit assignments
- Lecture slides
- Lecture videos
- Discussion boards

Required text. Sedgewick and Wayne. *Intro to Programming in Java: An Interdisciplinary Approach*.

Programming Assignments

Desiderata
- Address an important scientific or commercial problem
- Illustrate the importance of a fundamental CS concept
- You solve problem from scratch!

Due: Thursdays 9pm on due date via Web submission
- 3 hour grace period (no extra credit, won’t get questions answered)
- Four late days. Up to two per assignment.

Computing equipment.
- Your laptop (OS X, Windows, Linux, …)
- Moore computer labs

Advice
- Start early: plan multiple sessions
- Seek help when needed

- Our job is to help you!
What's Ahead?

Lecture 2: Intro to Java

First recitation: Meets next week on Wednesday/Thursday

Not registered? Go to any recitation now; sign up for wait list
Change your recitation? Fill out recitation change form
See course web page for links

Homework 0: Due Thursday, Thursday 13 September, 9pm
- Read Sections 1.1 and 1.2 in textbook
- Install Java programming environment + a few exercises
- Register for Piazza[http://piazza.com/upenn/fall2012/cis110]
- Lots of help available, don’t be bashful

END OF ADMINISTRATIVE STUFF

Languages

Machine languages: Tediouos and error-prone
Natural languages: Ambiguous and hard for computer to parse

High-level programming languages: Acceptable tradeoff

languages

Hello, World