Programming with Multimedia Objects
CS 177

BASICS
- Course Mechanics
- Expectations
- Why are we here?
- Getting going

Christoph Hoffmann, Fall 2013
Goals for CS177

- Teach fundamentals of programming
  - Use Python – it gets you off the ground fast
  - Widely used in the Sciences

- Empower you to carry on
  - Use research quality libraries for Python
  - Acquaint you with professional grade tools

- Show the scientific and interdisciplinary nature of computer science
Course Wiki

- Web page: http://courses.cs.purdue.edu/cs17700:start
- Check it often
- Blackboard Learn for grades
- Piazza for questions
- Codelab, Codingbat for practice of coding
Class Meets


- **Lecture**: Tue, Thu 3:30 — 4:20 pm, WTHR 200 (Wetherill Lab for Chemistry)

- **Course Labs**: many!

- **Recitation sessions**: many!

- **Course TAs**: check course website

- **Course Instructor**: cmh@purdue.edu

- **Course Coordinator**: lmartino@cs.purdue.edu
Office Hours

- Chris Hoffmann
  - W 10:30pm – 12:00pm (subject to change)
  - Lawson 3183

- Lorenzo Martino
  - M 12:00pm – 1:00pm
  - T 10:00am -12:00pm
  - Haas 144

- TAs
  - Will be posted on class website

- Additional hours will be scheduled closer to midterms and finals
Projects

- 5 projects
  - Some will be done as team projects
- Need to form teams of 2 students each
  - Team up early; register your team with us: send email to Dr. Martino
- 177 and the CoS team requirement:
  - Satisfied by passing the course
Text Book

Christoph Hoffmann, Leah Hoffmann, Lukasz Ziarek

Computing for the Sciences Using Python

Part 1: Basics
Part 2: Libraries and Data Structures

eBook at Amazon

Department loaners of Kindles available
Piazza

- Online Forum Software
  - Link, Registration Information, and Tutorial provided on class website

- Post Questions on Piazza
  - Faster turn around time
  - Use your classmates as a resource

- Registration:
  - We enrolled all who are registered as of last week
  - Purdue email address used
  - If you are not able to login let us know
Piazza Policies

- Do not post answers to HW etc on Piazza
  - This will be considered cheating

- Do not post publicly pieces of your lab/project assignment code
  - Post such things as private questions to the instruction team

- Make your questions as general as possible

- Use Tags
  - #assignment1  #prelab1  #lab1
  - #exam1
  - #project1

- If you are not sure use the #private tag or email
  - Only instructors and TAs can see (we will make it public as appropriate)
Grading

5 Projects 25%
Weekly Lab 25%
2 Midterm exams 25%
Final exam 20%
Clicker Questions 5%

Class will be graded on a curve
Borderline cases are a judgment call
Clicker Questions

- 1 point for attendance per lecture, regardless of CQ
- Graded CQ: 1 point each for correct answer
- CQs not graded: 0 points

- Make sure you
  - bring your clicker
  - it functions
Projects

- Due with precise deadline
  - Hand-in will be electronic (similar to labs)

- Late policy:
  - Up to 24h: –20%
  - Up to 48h: –50%
  - More than 48h late: no credit

- You may discuss the projects (Piazza), but you must do them separately
  - Some projects will be team projects

- Cheating cases sent to Dean of Students office
Exams

- No extra materials
  - No notes, cell phones, calculators, PDAs, etc

- Cheating referred to Dean of Students Office

- Exams in Week 6 and Week 11 -- exact times TBA
  - evening exams compensated with review lessons
Labs

- You are expected to be present in each of your labs
- Lab assignments are due at the end of the lab period
- Late submissions not accepted
PreLabs

- Starting with Lab 2 we will offer a PreLab assignment
  - Available on the course wiki
  - NOT graded
  - Will contain a review and practice code to help you study/prepare for Lab

- PreLabs should take about an hour (or less)
  - You can bring the PreLab material to the lab
  - PreLabs cover material from the previous week

- Will be made available on Friday of the prior week
Policies: Must Read

- Please read and familiarize yourself with:
  - http://spaf.cerias.purdue.edu/cpolicy.html
  - Link provided on course website

- Please read and familiarize yourself with:
  - emergency preparedness procedures
  - https://www.purdue.edu/emergency_preparedness/flipchart/index.html
Software

- IDLE - Python
  - Vanilla Python
  - Various libraries

- Software versions issue
  - Python 3.X a must
  - Latest releases are Python 3.2.5 and 3.3.2
  - We use Python 3.2.3

- Get it from [http://www.python.org](http://www.python.org)
iClicker

- Will be used for in class quizzes and attendance
  - Most CQs are graded.
  - Correct CQ answers plus attendance give you 5% of the course grade
Weekly Class Structure

- 2 Lectures
  - Concepts

- 1 Recitation
  - Review, Libraries, Interactive Coding, additional background

- 1 Pre Lab
  - Review / Practice

- 1 Lab
  - Realizing concepts in code
Class Structure

- First 6 Weeks
  - Boot Camp for Python
  - Learn the Core Python Language

- Rest of the class
  - CS concepts
    - Algorithms
    - Data Structures
    - Complexity / Recursion / Others
  - Libraries and their use

- Projects
  - exercise your skills
  - tie everything together
Lecture Slides

- All slides will be posted on the course wiki: http://courses.cs.purdue.edu/cs17700:start

- Sometimes there are changes, especially further out,
iClicker Test

You are:
A. Freshman
B. Sophomore
C. Junior
D. Senior
E. Other
### Demographics Fall 2013

**By Major**

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**By Year**

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Numbers as of 8/16/2013