Welcome to "Introduction to Computer Science"

CS 8: Introduction to Computer Science
Lecture #1

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A Word About Registration for CS8

FOR THOSE OF YOU NOT YET REGISTERED:

- This class is currently FULL
- If you are on the waitlist, you will be added automatically as others drop the course
- If you are not on the waitlist, you will not get into this class
- If you are an extension student, please see me after class

Disabled Students Program Notetaker Needed

CMPSC 8 TR 3:30

\$25 per unit (of the class)

(prorated based on the number of weeks selected)

Questions: Please contact WANDA THOMAS:

Phone: 805-893-2668

Email: thomas-w@sa.ucsb.edu

Please apply online at http://dsp.sa.ucsb.edu/services

Your Instructor

Your instructor: Ziad Matni (zee-ahd mat-knee)

Email: zmatni@cs.ucsb.edu

(please put CS8 at the start of the subject header)

My office hours:

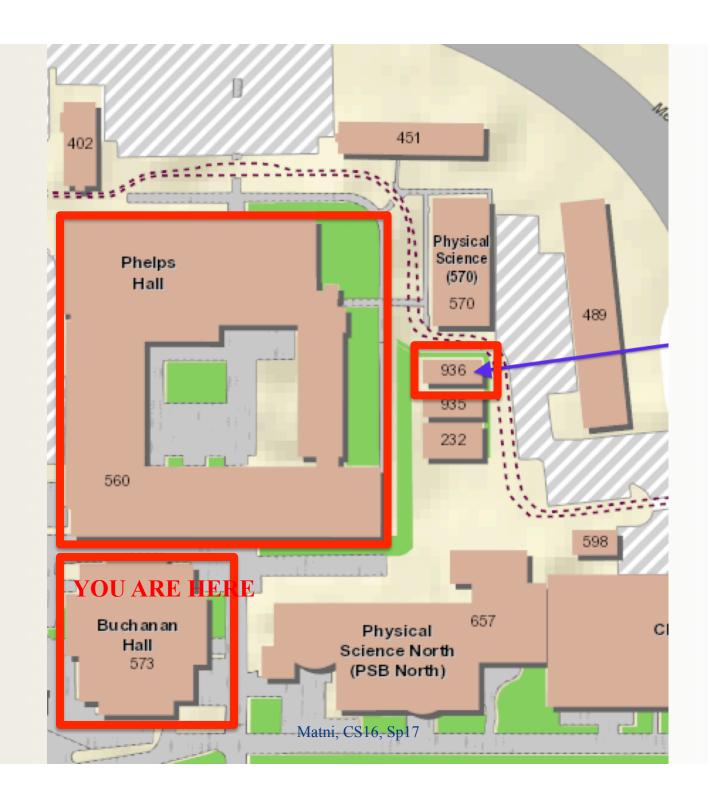
Tuesdays 10:00 AM - 12:00 PM, at SMSS 4409

(or by appointment)

Your TAs

TA NAME	LAB SECTION	OFFICE HOURS
Mahnaz Koupaee	Wed. 3 pm	Wed. 10 am – 12 pm
Sourav Medya	Wed. 4 pm, 5pm	Tue. 5 pm – 7 pm
Shiyu Ji	Wed. 6 pm	Mon. 3 pm – 5 pm
Zhongqi Yi (grader)	_	_

All labs will take place in PHELPS 3525
All TA office hours will take place in TRAILER 936



TRAILER 936



You!

With a show of hands, tell me... how many of you...

- A. Are Freshmen? Sophomores? Juniors? Seniors?
- B. Are Engineering majors?
- C. Are Science (Physics, Chem, Bio, Geog, etc...) majors?
- D. Are Math, Stats, ActuarialSci, etc... majors?
- E. Are Econ or Psych majors?
- F. Are Social Science (Soc, Comm, PoliSci, etc...) majors?
- G. Are Humanities (English, languages, history, etc...) majors?
- H. Have programmed anything before? What language?
- I. Have used a Linux or UNIX system before?

This Class

- A beginner's class in computer science
- Designed for non-majors
 - CS majors welcome to prepare for CS 16
- Through the lens of the *Python* programming language
 - More specifically, Python 3 (nothing earlier than ver. 3.4.3)
- We'll discuss motivations (why? / who cares?) and techniques (how do I do that?)

What CS 8 is Not

- Not for people with zero computer experience
 - Instead start with short courses offered by IC
 - Word processing, spreadsheets, web browsing, e-mail, ...
 - Otherwise you might be frustrated by CS 8's requirements and expectations
- Not a comprehensive course in Python either
 - We'll focus on a subset enough to teach fundamental programming concepts
 - After CS 8, you should be sufficiently trained to learn some advanced Python on your own

About Python

- Python is one of the most widely used and in-demand programming languages for both engineering and non-engineering applications
 - Very popularly used in
 - Dynamic Web Pages, Small Apps Building, etc...
 - Data Mining, Content and Text Analysis, etc...
- A gateway programming language
 - Forgiving syntax and form
 - You know you want to program...
- It looks great on your resume!

How Is This Class Taught?

 Every class has a lecture based on the readings

YOU SHOULD DO THE READINGS BEFORE CLASS!!!

You will be in a lab on Wednesdays

YOU SHOULD READ YOUR LAB ASSIGNMENT BEFORE YOU GO TO LAB!!!

 You have to do a lot of (short) homeworks and (kinda-short) lab assignments

> PRACTICE MAKES PERFECT!!!







- ~8 Homeworks
- ~8 Lab Assignments
- ~3 Project Assignments
- 2 Midterm Exams
- 1 Final Exam

... and a partridge in a pear tree...

Why All the Work?

- Programming is a skill
- Learning how to program requires *time*, *perseverance*, and *consistent* practice
 - Exactly like practicing a musical instrument
 - There's a *science* behind programming,
 but it is also about *technique*
- You learn by doing and by getting "your hands dirty"

Resources?

Class webpage:

https://ucsb-cs8-s17.github.io

Piazza discussions/Q&A:

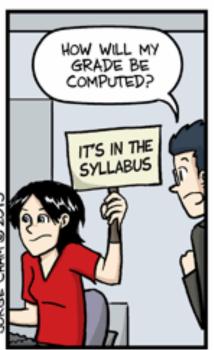
https://piazza.com/ucsb/spring2017/cs8

Just in Case...









IT'S IN THE SYLLABUS

This message brought to you by every instructor that ever lived.

WWW.PHDCOMICS.COM

So... let's take a look at that syllabus...

Electronic version found at:

http://cs.ucsb.edu/~zmatni/syllabi/CS16S17 syllabus.pdf

Also found on the class webpage

Switching About In The Labs...

... is frowned upon 🕾

- Please stick to the lab time that you have per your registration
 - The labs are pretty full and at capacity

IF YOU WANT TO SWITCH LAB SECTIONS, YOU MUST:

- 1. Find a person in the other lab to switch with you
 - 2. Get the OK from <u>BOTH</u> T.A.s

What YOU have to do by tomorrow

YOU HAVE A LAB TOMORROW!!!

- Log into Piazza and have a look around
 - Sign up for this class' page. Go to: https://piazza.com/ucsb/spring2017/cs8
- Go to the class main website and have a look around
 - Go to: https://ucsb-cs8-s17.github.io/
- Download/print out the homework assignment (h00)
 - This is a "companion-piece" to the first lab
 - It's a very simple, very easy homework. DO IT TONIGHT!
 - Bring the finished hard-copy with you to lab TOMORROW!
- Read the lab assignment (lab00) before you go into your lab: BE PREPARED

What YOU have to do before Thursday

YOU HAVE ANOTHER LECTURE ON THURSDAY!!!

- Read at least the first 4 sections of Chapter 1
- Confirm that you have access to Python, version 3.x
 - If you want to install on your own computer see http://www.python.org/
 - Available at CSIL and Collaborate labs too
- Play with Python at every opportunity
 - For instance, try out examples from text and lectures

YOUR TO-DOs

☐ Sign up on Piazza
 ☐ Go to the class website
 ☐ Download and print Homework0
 ☐ Do Homework0 TODAY
 ☐ Read Lab0 TODAY
 ☐ Do Lab0 TOMORROW (in lab)
 ☐ Solve world hunger

☐ Reverse global warming

