

INTRODUCTION TO PYTHON - CMPSC X420.P

Meeting Time: Tuesdays 6pm – 8:30pm, March 31 – June 2 (via Zoom)

Final 30 minutes are for you to work on homework / questions – I'll be available during that time for any one on one help that you may need

Zoom Link:

<https://ucsb.zoom.us/j/935144485?pwd=TXIXWVRMNUxGSVc5Ny96UmN5OXRXdz09>

Meeting ID: 935 144 485

Password: 050910

Instructor: Julie Nisbet - jmnisbet@gmail.com - 805 450 7635

Office Hours: By Appointment – email me and we can set up time

COURSE GOALS

This is a beginning programming course that will introduce students to the role programming can play in your life, regardless of whether or not you want to become a Software Engineer. Python is a great first language because it has a simple syntax, is easy to get setup and is fun and easy to write. Despite its simplicity, it's also really powerful and is used by some of the biggest tech companies. Course goals include:

1. Learn how to think like a programmer
2. Learn how to learn and teach yourself
3. Demystify programming
4. Learn general programming concepts that can be applied to other languages
5. Learn to read / write Python

TENTATIVE COURSE SCHEDULE (SUBJECT TO CHANGE)

Week	Date	Class Topics
1	Mar 31	Introductions, Environment Setup, Your First Python Program, Simple Data Types (Numbers, Strings)
2	Apr 7	Using the Terminal, User Input, Variables & Functions
3	Apr 14	Function Return Values, Intro to Lists
4	Apr 21	For Loops, Making Decisions and Thinking Like a Programmer
5	Apr 28	Working with Dictionaries
6	May 5	Debugging Practice & Review (Topics TBD)
7	May 12	Storing Functions in Modules, Reading files, Working with APIs, Working with third-party libraries
8	May 19	Classes / Object Oriented Programming.
9	May 26	Classes / Object Oriented Programming. Review / Project Work
10	June 2	Project Presentations

GRADING

- Attendance / Participation - 40%
- Weekly Assignments – 30%
- Final Project – 30%

REQUIREMENTS

- Laptop (not a Chromebook)
- Repl.it account (for weekly assignments)

RECOMMENDED RESOURCES

- Python Crash Course - A Hands on Project Based Introduction to Programming by Eric Matthes (Not required)
- r/python and r/learnpython subreddits
- <https://pyslackers.com/web>