Algorithms, Computers, and Programming I (Intro to Python)
(Fall 2017 dates)

Details on all aspects of the course are in our course policy.

Suggested textbook and online resources for Python 3:

Anaconda – we will use the Spyder IDE and Jupyter Notebook for Python 3 https://www.anaconda.com/distribution/

How to Think Like a Computer Scientist: Learning with Python 3 http://www.ict.ru.ac.za/Resources/cspw/thinkcspy3/

MIT OpenCourseWare 6.0001 – Introduction to Computer Science and Programming in Python
https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-0001-introduction-to-computer-science-and-programming-in-python-fall-2016/

PythonTutor – online Python visualization for running code http://pythontutor.com/

NOTE: this schedule is subject to change.

Classes	**Sections / Topics / Test**
#1: Mon, Aug 28 #2: Wed, Aug 30 **Mon, Sep 4: no class** #3: Wed, Sep 6	Introduction Code Formatting Data Types Arithmetic Operators Logical Operators Variables Assignment
#4: Mon, Sep 11 #5: Wed, Sep 13 #6: Mon, Sep 18 **Wed, Sep 20: no class** #7: Mon, Sep 25	**QUIZ #1** Input and Output #1: Keyboard / Screen Formatting Branching: if-else Iteration: for, while
#8: Wed, Sep 27 #9: Mon, Oct 2 #10: Wed, Oct 4 **Mon, Oct 9: no class** #11: Wed, Oct 11 #12: Mon, Oct 16	**QUIZ #2** **TEST #1** Decomposition, Abstraction Functions Variable Scope Strings, Lists, Tuples Aliasing, Mutability, Cloning Input and Output #2: Files
#13: Wed, Oct 18 #14: Mon, Oct 23 #15: Wed, Oct 25 #16: Mon, Oct 30 #17: Wed, Nov 1	**QUIZ #3** Recursion Dictionaries Testing, Debugging Exceptions, Assertions
#18: Mon, Nov 6 #19: Wed, Nov 8 **Fri, Nov 10: W DROP DEADLINE** #20: Mon, Nov 13 #21: Wed, Nov 15 #22: Mon, Nov 20 #23: Wed, Nov 22	**QUIZ #4** **TEST #2** Object Oriented Programming Classes Inheritance Web APIs
#24: Mon, Nov 27 #25: Wed, Nov 29 #26: Mon, Dec 4 #27: Wed, Dec 6 #28: Mon, Dec 11	**QUIZ #5** Final Project Design **QUIZ #6** Final Project Execution
Tue, Dec 12: LAST DAY OF CLASSES	
Wed, Dec 20	**FINAL EXAM**