USC Viterbi
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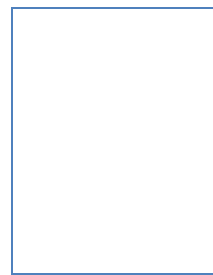
PROGRAMMING IN PYTHON (ITP 115)

Spring 2013 Syllabus

Instructor	Rob Parke	**Day / Time**	Mon, Wed 12:00 PM – 1:50 PM
Department	Information Technology Program	**Location**	KAP-160
Email	parke@usc.edu		
Office Hours	listed on Blackboard		

Required Materials

Textbook	TBD
Media	USB Flash Drive (at least 512 MB)

Prerequisites	None
Credit	3 units

Course Objectives

This course is intended to teach the basics of programming in Python. Python's high level data structures and clear syntax make it an ideal first language, while the large number of existing libraries make it suitable to tackle almost any programming tasks.

Evaluation

Participation	10%
Labs & Quizzes	35%
Midterm	25%
Final Project	30%

Grade Scale

A	100-93	B-	82-80	D+	69-67
A-	92-90	C+	79-77	D	66-65
B+	89-87	C	76-73	F	64 or below
B	86-83	C-	72-70		

Attendance and Drops

It is the student's responsibility to withdraw officially from a course.

Students are expected to attend all class meetings, and they must notify the instructor about absences due to illness prior to class. Student will be dropped from the class for excessive absences as well as for missing the first class meeting.

Class Policies

Students are expected to:

- Attend and participate in lecture discussions and critiques
- Attend and complete weekly labs and quizzes
- Manage and complete individual class projects

Students are responsible for completing assignments and projects by stated deadlines. Most assignments will be uploaded to the course's Blackboard site.

Late Work

Assignments and projects will be accepted for full 50% credit for up to one week after the due date. It is the responsibility of the student to contact the grader when posting late projects.

Software

The software needed for this course is available for free online. All homework and projects will need this software to be completed (available for Mac and Windows).

> **Python 3.2.3**　　　　　　　　http://www.python.org/download/releases/3.2.3/
>
> Make sure that you download this version (**3.2.3**) and not a newer version.

Python 3.2.3 comes with an integrated design environment (IDE) for writing code and creating projects called IDLE. This will suffice for our class, but other IDEs are available with additional features. You may feel free to use another IDE such as Eclipse or NetBeans, especially if you are already familiar with one.

> **Python-Supported IDEs**　　　http://wiki.python.org/moin/IntegratedDevelopmentEnvironments

ITP Labs

Before logging onto an ITP computer, students must ensure that they have emailed or saved projects created during the class or lab session. Any work not saved will be erased after restarting the computer. ITP is not responsible for any word lost.

ITP offers Open Lab use for all students enrolled in ITP classes. These open labs are held beginning the second week of classes through the last week of classes. Please contact your instructor for specific times and days for the current semester.

Academic Integrity

The use of unauthorized material, communication with fellow students during an examination, attempting to benefit from the work of another student, and similar behavior that defeats the intent of an examination or other class work is unacceptable to the University. It is often difficult to distinguish between a culpable act and inadvertent behavior resulting from the nervous tension accompanying examinations. When the professor determines that a violation has occurred, appropriate action, as determined by the instructor, will be taken.

Although working together is encouraged, all work claimed as yours must in fact be your own effort. Students who plagiarize the work of other students will receive zero points and possibly be referred to Student Judicial Affairs and Community Standards (SJACS).

All students should read, understand, and abide by the University Student Conduct Code listed in SCampus, and available at: http://web-app.usc.edu/scampus/university-student-conduct-code/

Academic Accommodations – Disabled Students Programs and Services (DSPS)

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to your TA) as early in the semester as possible. DSP is located in STU 301 and is open 8:30 a.m. - 5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.

Cell Phone / Distraction Policy

Out of respect for all students, please turn off all phones or MP3 players and refrain from answering, texting, checking email, or updating Facebook / Twitter / etc. during class.

Syllabus / Course Changes

This syllabus is a guideline so it is each student's responsibility to note any changes that are made.

COURSE OUTLINE

Note: schedule subject to change

Week	Topic	Reading	Lab
1	Introduction	get book	-
2	Intro to Python -- types, variables, i/o	ch. 1-2	lab 1
3	Flow of Control -- branching, if / else, loops, modules	ch. 3	lab 2
4	Loops, Strings, and Tuples	ch. 4	lab 3
5	Strings, Tuples, Lists and Files	ch. 4-5	lab 4
6	Lists and Dictionaries	ch. 5	lab 5
7	Functions	ch. 6	lab 6
8	Files and Exceptions	ch. 7	study
9	Midterm	-	-
10	__magic__ functions	-	-
11	Objects	ch. 8	lab 7
12	OOP and Inheritance	ch. 9	lab 8
13	OS	handouts	final project
14	GUI	handouts	final project
15	Packages, Copy, Dynamic Code	handouts	final project
16	Final Projects Due	-	-