

## Contact Information

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### **Instructor: Amir Hallajpour**

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You may also contact the instructor by using the Inbox feature within Canvas.

## Description

Python is a high-level, dynamically typed, and portable programming language that excels when the cost of software development outweighs performance considerations, which is quite often in practice. Python covers similar territory as Perl and is similarly an open-source product, but it is considered easier to learn, write, and maintain. NASA, Industrial Light and Magic (ILM), Honeywell, and many other companies all use Python to handle jobs for which classical programming languages are not well-suited. This course introduces Python and its libraries as a general programming environment, then applies Python to real-world problems, such as website development, database access, text processing, XML editing, GUI development, and system administration.

## Materials

### Introduction to Computing Using Python (2nd Edition)

Author: Ljubomir Perkovic

ISBN : 978-1-118-89094-3

## Evaluation

### **Criteria**

#### **Grading:**

Weekly Assignments 70%

Final 30%

### **Breakdown**

A+	100%	to 97.0%
A	< 97.0%	to 94.0%
A-	< 94.0%	to 90.0%
B+	< 90.0%	to 87.0%
B	< 87.0%	to 84.0%
B-	< 84.0%	to 80.0%
C+	< 80.0%	to 77.0%

C	< 77.0%	to 74.0%
C-	< 74.0%	to 70.0%
F	< 70.0%	to 0.0%

## Institutional Policies

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### All Grades are Final

No change of grade may be made by anyone other than the instructor, and then, only to correct clerical errors. No term grade except Incomplete may be revised by re-examination. The correction of a clerical error may be authorized only by the instructor of record communicating directly with personnel of Student and Alumni Services.

### Incompletes

Your instructor may post the interim grade *Incomplete/I* if at the end of the class your overall work is of passing quality but a portion could not be submitted for understandable reasons (e.g. illness). It is your responsibility to petition your instructor for permission to submit work late and to provide an explanation, and it is his or her sole decision whether to accept the explanation. If permitted, the *Incomplete/I* grade will be posted and a time frame defined for you to submit the missing work, ranging from one to twelve weeks. *Incomplete/I* grades that remain unchanged after twelve weeks will lapse to *F*, *NP* or *U*. Receiving an *I* grade entitles you to submit only the missing work your instructor has agreed to accept late, and does not allow other work to be retaken or oblige UCLA Extension to provide continuing access to course materials via Canvas. The *Incomplete/I* grade is not an option for courses that do not bear credit, such as 700, 800, or 900-level courses. For complete information, see:

<https://www.uclaextension.edu/pages/str/grading.jsp>  
(<https://www.uclaextension.edu/pages/str/grading.jsp>)

### Student Conduct

Students are subject to disciplinary action for several types of misconduct or attempted misconduct, including but not limited to dishonesty, such as cheating, multiple submission, plagiarism, or knowingly furnishing false information to the University; or theft or misuse of the intellectual property of others or violation of others' copyrights. Students are encouraged to familiarize themselves with policy provisions which proscribe these and other forms of misconduct at:

<https://www.uclaextension.edu/pages/str/studentConduct.jsp>  
(<https://www.uclaextension.edu/pages/str/studentConduct.jsp>)

### Sexual Harassment

The University of California is committed to creating and maintaining a community where all individuals who participate in University programs and activities can work and learn together in an atmosphere free of harassment, exploitation, or intimidation. Every member of the community should be aware that the University prohibits sexual harassment and sexual violence, and that such behavior violates both law and University policy. The University will respond promptly and effectively to reports of sexual harassment and sexual violence, and will take appropriate action to prevent, to correct, and when necessary, to discipline behavior that violates our policy.

All Extension students and instructors who believe they have been sexually harassed are encouraged to contact the Department of Student and Alumni Services for complaint resolution: UCLA Extension, Suite 113, 10995 Le Conte Ave., Westwood; Voice/TTY: (310) 825-7031. View the University's full Policy on Sexual Harassment and Sexual Violence at <http://policy.ucop.edu/doc/4000385/SHSV> (<http://policy.ucop.edu/doc/4000385/SHSV>).

## Services for Students with Disabilities

In accordance with the Americans with Disabilities Act of 1990, UCLA Extension provides appropriate accommodations and support services to qualified applicants and students with disabilities. These include, but are not limited to, auxiliary aids/services such as sign language interpreters, assistive listening devices for hearing-impaired individuals, extended time for and proctoring of exams, and registration assistance. Accommodations and types of support services vary and are specifically designed to meet the disability-related needs of each student based on current, verifiable medical documentation. Arrangements for auxiliary aids/services are available only through UCLA Extension's Office for Students with Disabilities at (310) 825-0183 or by email at [access@uclaextension.edu](mailto:access@uclaextension.edu) (<mailto:access@uclaextension.edu>). For complete information see: <https://www.uclaextension.edu/pages/str/studentswithDisabilities.jsp> (<https://www.uclaextension.edu/pages/str/studentswithDisabilities.jsp>)

## Additional Items

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### About Your Online Course Materials

Please note the following about online course components at UCLA Extension:

- Students must have basic computer skills, including the use of word processing software, email, and the ability to use internet browsers, such as Safari, Firefox, or Chrome.
- Students are responsible for meeting the technical requirements of Canvas and familiarizing themselves with the Canvas Learning Management System.
  - What are the basic computer specifications for Canvas?  
<https://guides.instructure.com/m/4214/l/82542-what-are-the-basic-computer-specifications-for-canvas> (<https://guides.instructure.com/m/4214/l/82542-what-are-the-basic-computer-specifications-for-canvas>)
  - Which browsers does Canvas support? <http://guides.instructure.com/s/2204/m/4214/l/41056-which-browsers-does-canvas-support> (<http://guides.instructure.com/s/2204/m/4214/l/41056-which-browsers-does-canvas-support>)
- Students are responsible for keeping a copy of all assignments and work submitted, and to be aware of all assignments, due dates, and course guidelines.
- Students are encouraged to keep and/or download a local copy of their assignment files, as **access to the online environment of a specific course is limited to 30 days after the final course date**, as listed in the course catalog.

If you need assistance downloading student materials from your course, please contact Canvas Support or the Office of Instructional Enhancement.

### UCLA Extension Enhanced Support

Email: [support@unexonline.zendesk.com](mailto:support@unexonline.zendesk.com) (<mailto:support@unexonline.zendesk.com>)

Phone: Toll-free at (866) 269-7289 (US only) or (310) 206-4563.

Monday - Friday, 7am to 6pm (Pacific Time).

Website: <http://support.uclaextension.edu> (<http://support.uclaextension.edu/>)

The UCLA Extension course management team assists both students and instructors with Canvas-related technical support, as well as general administrative questions.

For additional support on using Canvas or addressing a technical issue:

Click on the "Help" button on the lower left corner of the screen from within the Canvas system, where you can chat live with a technical support agent or submit a ticket for assistance.

## Schedule

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Week	Topic
	Introduction to Computing Using Python

1	Introduction Python Data Types	Chap 1 - 2
2	Execution Control Structures  User Defined Functions	Chap 3 and 5
3	Text Data, Files, and Exceptions  Namespaces	Chap 4 and 7
4	Containers and Randomness	Chap 6
5	Object Oriented Programming	Chap 8
6	Graphical User Interface	Chap 9
7	The Web and Search	Chap 11
8	Database and Data Processing	Chap 12
9	Final	