

University of Arizona

Computer Science 127a/110: Computer Programming I

Abridged Course Syllabus, Autumn 2016

Instructor

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Weds 12:00 pm – 1:00 pm,
or by appointment

Advising

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GS 901

The advisors handle all registration issues and switching sections.

Course Overview

This course provides an introduction to programming using the Python programming language. We will explore common computational problem-solving techniques useful to computer scientists but also to anyone who has large data sets, repetitive processes or other needs for computation. No prior programming experience is assumed, although students should know the basics of using a computer (e.g., using a web browser and word processing program) and should be comfortable with math through College Algebra. Students with significant prior programming experience should consider skipping CSc 110 and taking CSc 127b.

Lecture Time

MWF 8:00 AM - 8:50 AM, Biology East 100
MWF 9:00 AM - 9:50 AM, Modern Languages 350

Discussion Sections

You will be expected to participate in a Wednesday or Thursday discussion section. The Section Leader who runs your section will grade your homework assignments. In section we will answer questions, go over common errors in homework solutions, and discuss sample problems in more detail than we can in lecture.

Each student will be assigned a section participation score that is weighted the same as one homework assignment. You will receive up to **3 points** for each section you participate in, up to a maximum of 34 points. Two of those points will be awarded for successful completion of short take-home problems that will be due at the start of each week's section.

Course Web Site

- <http://www.cs.arizona.edu/classes/cs110/fall16>

All resources from class will be posted here. Check the web site daily for important announcements.

Textbook

- *Python Programming: An Introduction to Computer Science* by John Zelle
ISBN 978-1590282755. *Recommended.*
Available from Amazon in paper form and RedShelf in eBook form

No problems will be assigned out of this book. If you know that reading helps you learn, than I definitely suggest you get it. All necessary information will be provided in lecture and section so it is not necessary to buy.

Computer Access and Software

SLs and consultants will be available to help you at the Introductory Programming Lab (IPL) in **room 228 of Gould-Simpson**. The required software is the Python version 3 or higher and the **IDLE** editor (this installs by default with Python). The course web site contains links to download this software free of charge if you want to work at home.

Grading

45%	weekly homework assignments (including section participation)
15%	midterm 1 Friday, September 23rd <i>in lecture</i>
15%	midterm 2 Friday, October 28th <i>in lecture</i>
25%	final exam Wednesday, December 14, 8:00 - 9:50, Lecture 1 (normally 8 – 8:50 am) Tuesday, December 13, 10:30 - 12:20, Lecture 2 (normally 9 – 9:50 am)

This maps to the grading scale roughly as follows. You will get at least the grade below for the percentage shown.

90%: at least A

80%: at least B

70%: at least C

60%: at least D

Exams

You may not use any books, notes or electronic devices, **including calculators**, during the exams.

Make-up exams will not be given except in case of a serious emergency. If you must miss an exam, even if you are sick or injured, you must contact Allison *before* the exam (or arrange for someone to do so). You must show evidence that you are physically unable to take the exam, such as a clear and specific doctor's note mentioning the date, exam, and reason. No make-ups will be granted for personal reasons such as travel, personal hardship, leisure, or to ease exam week schedules. **No student will be permitted to take an exam early for any reason.**

Homework

Homework consists of weekly programming assignments done individually and submitted electronically from the course web site. Programs will be graded on "external correctness" (behavior) and "internal correctness" (style and design). Disputes about homework grading must be made within 2 weeks of receiving the grade.

Lateness

Each student receives **8 "late days"** for use on homework assignments. A late day allows you to submit a program up to 24 hours late without penalty. For example, you could use 2 late days and submit a program due Tuesday 9pm on Thursday by 9pm with no penalty. Once a student has used up all the late days, each successive day that an assignment is late will result in a loss of 1 point on that assignment. Regardless of how many late days you have, **you may not submit a program more than 4 days after it is due** or after the last day of class. Students will not be given extensions unless they have extenuating circumstances as decided by the instructor.

Academic Integrity and Collaboration

Programming assignments must be completed individually; all code you submit must be your own work. You may discuss general ideas of how to approach an assignment, but never specific details about the code to write. Any help you receive from or provide to classmates should be limited and should never involve details of how to code a solution. You must abide by the following rules:

- You may not work as a partner with another student on an assignment.
- You may not show another student your solution to an assignment, nor look at his/her solution, for any reason.
- You may not have another person "walk you through" an assignment, describe in detail how to solve it, or sit with you as you write it. You also may not provide such help to another student. This includes current or former students, tutors, friends, SLs, paid consultants, people on the Internet, or anyone else.
- You may not post your homework solution code online to ask others for help. This includes public message boards, forums, file sharing sites and services, or any other online system.

Under our policy, a student who gives inappropriate help is equally guilty with one who receives it. Instead of providing such help to someone who does not understand an assignment, please point them to other class resources such as lecture examples, the textbook, the IPL, or a SL or instructor. You must not share your solution and ideas with others. You must also ensure that your work is not copied by others, such as making sure to log out of shared computers, not leaving printouts of your code in public places, and not emailing your code to other students or posting it on the web.

If you are retaking the course, you may resubmit a previous solution unless that program was involved in an academic misconduct case. If misconduct was found, you must write a new version of that program.

We enforce this policy vigorously by running similarity detection software a few times per quarter over all submitted student programs, including programs from past quarters. Students who violate the policy are offered reduced scores and sometimes sent to a University committee. This can lead to marks on permanent academic records. Generally several dozen students each quarter are given reduced scores for violating these policies. Please be careful, and contact the instructor if you are unsure whether a particular behavior falls within our policy.