**DE ANZA COLLEGE SPRING 2023**

**CIS 41B 01Y – Advanced Python Programming**

Tue, Thu 11:30am - 1:20pm AT 204

**Instructor** Clare Nguyen

**Office Hour** Mon, Wed: 5:00-5:50pm, through Zoom

Tue, Thu: 10:30-11:20am, AT 204 classroom

**Phone** 408 864 8461

**Email** [nguyenclare@fhda.edu](mailto:nguyenclare@fhda.edu) (best way to reach me outside of class and office hour)

**Reference Book** *Introducing Python* by Lubanovic, ISBN: 978-1449359362

**Website** Canvas: https://deanza.instructure.com

**Student Learning** Design, code, document, analyze, debug, and test advanced level Python programs that include

**Outcome** Python modules for database, networking, graphics, and extensions

**Course Topics** Upon completion of the course, students will have learned:

1. Data structures, comprehension, and associated functions
2. Features of first order functions and higher order functions
3. Data analysis and visualization
4. GUI programming
5. Web access and APIs
6. Database access
7. Threads and processes
8. Network and socket programming

**Attendance** This is a hybrid course that has on-campus class meetings for discussion of class material and exercise, and for exams. The rest of the class work is online.

Regular and punctual attendance at the class meetings is highly recommended. But if you cannot make it to a class meeting, the solution to the class exercise discussion will be posted so you can use them to study.

For the first day of class: it is important that you are present in class for roll call, *and* you log in to Canvas and *take the Check Quiz by the end of the first day of class* to keep your spot in the class. Those who do not complete the Check Quiz by the end of the first day will be dropped from the class.

Once enrolled after the first day, there will be no roll call for attendance, however, you should participate in class activities and earn at least a minimum cumulative number of points every 3-4 weeks as shown below, in order not to be dropped from the class:

End of week 4: 20 pts End of week 7: 104 pts

**Scholarly conduct** Discussion and exchange of ideas on lab assignments are strongly encouraged. However:

* + - Each person is expected to complete his/her own original work. Original work means it must not be copied in whole or in part from another person's work, from an online source, or from a printed source.
    - Please do not post your assignments online anywhere during the quarter. If someone saw your work online and copied it to turn it in, then even if you don't know about it, you are automatically counted as part of the cheating group.

Copying or cheating during an exam will result in a zero grade being assigned to the exam.

**Class components**

1. Course materialThere are 5 modules of class material.

* The lecture notes for each module are in power point format.
* The lecture notes are accompanied by practice exercises, which are code demos of the concepts in the notes.
* It is highly recommended that you read the class notes and try out the exercises before the class meetings. Doing this will help you get the most out of the class discussions, and you earn extra credit as a bonus.

2. Assignments There will be 5 mini-projects for the assignments, at 25 points each.

1. Assignments are submitted on Canvas.
2. You must submit an assignment *by 11:59pm* on its due date to be considered on time. Partial credit will be given for incomplete assignments.
3. If you cannot submit assignments on time, late assignments will be accepted.   
   - For assignments 1 and 3, assignments turned in after the due date/time will receive a *20% per weekday penalty*.   
   - For assignments 2, 4, and 5, late assignments can be turned in until the next class meeting time (11:30am), with a 20% late point deduction, because we will go over the solution in the class meeting. You cannot submit the assignment after the solution has been discussed.

3. Exams There are 2 midterm exams, 80 pts each, and a final exam, 100 pts.

* + - Exams are open book / notes.
* There is no make-up for the exams. If you must miss a midterm and you have proof of an emergency reason, or you have a good reason and discuss it with me *ahead of time*, then the score of the next exam will be counted twice, to cover for the missed exam. The final exam must be taken during the scheduled time.
* Instead of a final exam, you can work with one or two other students on a team final project of your choice. To earn the choice to work on the final project, you must have a minimum of 80% on each of the two midterms and all assignments.

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**Grading** Grading is based on the percentage of the total points obtained:

Assignments: 130 points (5 assignments @ 25pts + a 5pt review exercise)

Midterms: 160 points (2 midterms @ 80pts)

Final: 100 points

Total: 390 points

A+: 97-100% B+: 87-89% C+: 77-79% D+: 67-69%

A : 93-96% B : 83-86% C : 70-76% D : 63-66% F : 0-59%

A- : 90-92% B- : 80-82% D- : 60-62%