**DE ANZA COLLEGE Fall 2018**

**CIS 41B – Advanced Python Programming**

(MW 1:30 - 3:20pm, AT 204)

**Instructor** Clare Nguyen

**Office Hour** MW: 3:30 – 4:20pm, AT 203 Lab

TTh: 8:30 – 9:20am, Bldg. F5 (near parking lot C)

**Phone** (408) 864-8461

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

**Reference Book** *Learning Python* by Lutz, 5th edition, ISBN: 978-1449355739 (this is not a required book)

**Website** 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

**Topics** Upon completion of the course, students will have learned the following concepts in Python:

1. Data structures, comprehension, and associated functions
2. Features of first class functions and higher order functions
3. Data analysis and visualization
4. GUI programming
5. Web access and APIs
6. Threads and processes
7. Network and socket programming
8. System calls and interface with C/C++

**Attendance** This hybrid section meets on campus for lecture and lab, and the assignments, quizzes are online. You are expected to attend class regularly and on time. If you miss a class you are still responsible for any announcement or work given out in class. Please check with me or with a classmate and the online forum if you are absent from class.

In class you are expected to participate, not conduct personal conversation, and use the computer for class work only. Excessive class disruption may lead to administrative follow-up. On the other hand, active participation and contribution to class discussions can positively affect your grade.

Please read the class notes *before* coming to class in order to prepare for the practice exercises during lecture time. During lab time you will have the opportunity to ask one-on-one questions.

Once enrolled, if you wish to drop the class, it is *your responsibility to drop the class before the last day to drop.* Otherwise, an appropriate grade will be assigned at the end of the quarter.

**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, or from an online source or a printed source.
    - Please do not post your assignments online anywhere. 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.

Identical or very similar solutions will be given a zero grade, unless it is part of team work.   
If there is a question regarding the authenticity of a student's work, the student will be asked for   
a verbal explanation of the work before the grade is determined.

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

**The 4 components of regular class work**

1. Lecture notesThere are 5 main modules of class material, and the lecture notes for each module are in power point format. It is important that you read the lecture notes *before* attending class so that you're prepared for the practice exercise

2. Class exercises There are practice exercises for each module to demonstrate the concepts covered in the notes.   
The class work together to come up with the solution for the practice exercises in class., so it's important that you actively participate in class so that you can type in the solution to the exercises for yourself.

3. DiscussionThere are 2 ways to participate in class discussions.

* Show up to the class, participate in the practice exercises and discussions during lecture time, and be prepared to ask your one-on-one questions during lab time.
* Check the online Questions forum on a regular basis. You can ask questions, answer someone’s question, or comment on the class material. This is a good way to get your questions answered outside of class time.

4. Assignments There will be 5 assignments, 30 points each.

1. Assignments are submitted on Canvas, and some assignments can be done with a partner.
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 an assignment on time, late assignments will be accepted. Assignments turned in after the due date/time will receive a *20% per weekday penalty*.
4. After you've submitted your assignment you can submit it again on Canvas. But if you've already submitted a ‘good’ copy of your assignment before the due date/time, do not submit again after the due time because it will have a late timestamp.

**Exams** There are 2 midterm exams, 100 pts each, and a final project or final exam, 100 pts.

* + - Exams are open book, open notes, but no electronic devices.
* Make up for the midterm will be allowed only with proof of emergency reasons or prior approval. Prior approval must be obtained at least one week before the scheduled exam, and the make-up exam will be given *before* the scheduled exam. The final exam must be taken during the scheduled time, there is no early or late final exam taking.
* Instead of a final exam, you can work with one or two other students on a final project of your choice or on a given final project. To earn the choice to work on the final project, you must have a minimum of 80% on the two midterms and on all assignments.

**Extra Credit** There are small extra credit opportunities throughout the quarter.

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

Lab assignments: 150 points (5 assignments)

Midterms: 200 points (2 midterms)

Final: 100 points (exam or project)

Total: 450 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%