CIS 41A Python Programming - Fall 2022

Instructor: Mirsaeid Abolghasemi

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Class hours: TBA - No live session - The recorded videos will be posted on Canvas

Office hours: Wednesday 5 PM - 6 PM - Zoom online meeting - The link will be posted on Canvas

Description:
A complete introduction to the Python language. Topics covered include: primitive and collection data types, operators and statements, loops and branching, functions and variable scoping, modules and packages, object oriented programming, file handling, regular expressions and exception handling

Student Learning Outcome Statements (SLO):
• **Student Learning Outcome**: Design, code, document, analyze, debug, and test introductory level Python programs that include Python modules.

Course Objectives:
- Use appropriate data types for variables

- Code statements that use expressions, operators, and built-in functions to compute values

- Apply control structures to create loops and conditional blocks of code

- Write code to handle data input/output through standard IO and files

- Implement user-defined functions for modularization of code

- Import and use common Python modules and packages

- Create custom classes and apply object oriented programming concepts

- Handle exceptions in the program

- Use regular expressions for text parsing

Course Information:
Term: 2022 Fall De Anza | **CRN:** 26033 | **Title:** PYTHON PROGRAMMING | **Course:** CIS D041A62Z |
Days: TBA | **Time:** TBA - TBA | **Room:** ONLINE | **Prerequisite:** CIS 22A or 36A or 40.

Textbook(s):
- **Python for Everyone, 2nd Edition, Cay S. Horstmann, Rance D. Necaise, Wiley, 2016.**

Supporting Texts and References: (We <u>may</u> use the following books which are free and can be found online.)

- Python for Everybody: Exploring Data in Python 3, Dr. Charles Russell Severance, 2016.
https://www.py4e.com
- Think Python: How to Think Like a Computer Scientist, 2nd Edition, Allen B. Downey, O'Reilly, 2015.
https://greenteapress.com/wp/think-python/

Grading:	
Quizzes	%35
Lab Exercises & Assignments	%20
Midterm Exam(s)	%20
Final Exam	%25
Total	**%100**

Extra credit opportunities:

Several assignments/labs will have bonus points added when a solution is creative, documentation is extra informative, assignments/labs are submitted early, and/or code is exceptionally easy to read.

Lectures, attendance, exercises, midterm, and final:

- Assignments should be submitted before the due date. If submitted late, then the homework score will be reduced with a penalty of 10% per day.
- Assignments should be commented on with your name and team name.
- Students can use any IDEs to do their assignments.
- **Lectures:** The recorded videos will be posted on Canvas.
- **Attendance**:
  - o No live session.
  - o No attendance is needed but students should take the attendance quizzes.
  - o But students should be active on Canvas, especially in the first two weeks. I can check the students' activities on Canvas.
  - o If a student was not active on the first day of class, I will drop them. So, taking the mandatory quiz on Canvas and being active on Canvas is important.
- **Quizzes:**
  - o Quizzes are multiple-choice questions.
  - o Students need to have a camera on their computers.
  - o Students should have Zoom installed on their computers to take the exams.
  - o Students should record the exam based on the instruction posted on Canvas and upload the recorded video on their Google Drive (or any other clouds). Then share a link to the recorded video without a password. After grading, students can delete the recorded video from their Google Drive.
- **Midterm part 1:** the coding part
  - o Students can do it at home.
  - o Students should do it in a team but each student should write their names and team's names on their codes.
  - o Students can do it individually but teamwork is recommended. If you want to do it individually, it means you are good enough in Python and you do not need help.
  - o No presentation is needed for Midterm part 1.
- **Midterm part 2:**
  - o Midterm part 2 is similar to the quizzes.
  - o Students need to have a camera on their computers.
  - o Students should have Zoom installed on their computers to take the exams.
  - o Students should record the exam based on the instruction posted in Canvas and upload the recorded video on their Google Drive. Then share a link to the recorded video without a password. After grading, students can delete the recorded video from their Google Drive.
- **Final part 1:**
  - o Final part 1 is the final project (the coding part)

o   Students can do it at home.

o   Students should do it in a team but each student should write their names and team's names on their codes.

o   Students can do it individually but teamwork is recommended. If you want to do it individually, it means you are good enough in Python, and you do not need help.

o   No presentation is needed for Final part 1.

- **Final part 2:**
  - o   Final part 2 is similar to the quizzes.
  - o   Students need to have a camera on their computers.
  - o   Students should have Zoom installed on their computers to take the exams.
  - o   Students should record the exam based on the instruction posted in Canvas and upload the recorded video on their Google Drive. Then share a link to the recorded video without a password. After grading, students can delete the recorded video from their Google Drive.
- Midterm and final parts 1 and 2 are together and students should do both parts 1 and 2 to get their midterm or final grades.

Grade average required:

A+	98% and up
A	94%-97%
A-	90%-93%
B+	87%-89%
B	84%-86%
B-	80%-83%
C+	77%-79%
C	70%-76%
F	69% or less

De Anza Academy Integrity:

http://www.deanza.edu/studenthandbook/academic-integrity.html

Homework and labs must be your own work to the following extent:

- Do not send your code to anyone.
- Do not copy anyone else's code.
- DO NOT LOOK AT OTHER STUDENTS WORK AND SHOW THEM YOURS.
- As long as you are not copying other's work, discussions and exchange of ideas are encouraged.

Disability Accommodations:

De Anza College views disability as an important aspect of diversity, and is committed to providing equitable access to learning opportunities for all students.

Disability Support Services (DSS) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations If you have, or think you have, a disability in any area such as, mental health, attention, learning, chronic health, sensory, or physical, please contact DSS to arrange a confidential discussion regarding equitable access and reasonable accommodations.

If you are registered with DSS and have accommodations set by a DSS counselor, please be sure that your instructor has received your accommodation letter from Clockwork early in the quarter to review how the accommodations will be applied in the course. Students who need accommodated test proctoring must meet appointment booking deadlines at the Testing Center. a) Midterm exam be booked at least five (5) business days in advance of the instructor approved exam date/time. b) Final exams must be scheduled seven (7) business days/weekdays in advance of the instructor approved exam date/time. Failure to meet appointment booking deadlines will result in the forfeit of testing accommodations and you will be required to take your exam with the class.

DSS Location: RSS Building, Suite 141 Phone: (408) 430-7681 Email: DSS@deanza.edu
Students with special needs to: https://www.deanza.edu/dsps/index.html

=> Important Dates:

(Please check the Academic Calendar on the De Anza College website. These dates may get changed.)

Last Day for Drops w/ Refund	October 9, 2022
Last Day for Drops w/o W	October 9, 2022
Last Day for Drops	December 18, 2022

(Students are responsible to check the Academic Calendar for important deadlines and any changes in the deadlines.)

The schedule of the class sessions:
- No live session.
- No presentation is needed.
- No attendance is required => **But students should take the attendance quizzes every week to show they are active in class.**

Week 1: September 26 - October 2
    (The first session - reviewing the syllabus)
    (Chapter 1 - Introduction & Chapter 2 - Variables, Expressions, and Statements)
    (Quiz Chapters 1 & 2: April 8. Students can take it at any time between 9 am and 11:59 pm.)
Week 2: October 3 - October 9
    (Chapter 3 - Decisions, Relational Operators)
    (Chapter 3 (from Analyzing Strings) & Software Testing, Reviewing Quiz CH2, EZGraphics)
Week 3: October 10 - October 16
    (Quiz Chapter 3: April 22. Students can take it at any time between 9 am and 11:59 pm.)
week 4: October 17 - October 23
    (Chapter 4 - Loops - reviewing Quiz Chapter 3)
    (Chapter 4 & Strings)
    (Chapter 5 Functions & about Quiz 4 and Midterm parts 1 &2)
    (Quiz Chapter 4: April 29. Students can take it at any time between 9 am and 11:59 pm.)
    (Midterm part 1 will be published)
week 5: October 24 - October 30
    (Midterm Part 1: The due date for midterm part 1 (coding part) will be on October 30 at 11:59 pm. Midterm part 1 will be opened one week before its due date.)
week 6: October 31 - November 6
      (Midterm - Part 2: October 28. Students can take it at any time between 9 am and 11:59 pm.)
week 7: November 7 - November 13
    (Chapter 6 - Lists & reviewing Midterm part 2)
    (Chapter 8: Sets, Dictionaries, Chapter 7: Files)
    (Quiz - Chapter 6&8: May 20. Students can take it at any time between 9 am and 11:59 pm.)
week 8: November 14 - November 20
    (Quiz - Chapter 7: May 27. Students can take it at any time between 9 am and 11:59 pm.)
    (Chapter 9: Class&Objects)
week 9: November 21 - November 27
    (Inheritance)
    (Quiz - Chapter 10 - Inheritance: June 3. Students can take it at any time between 9 am and 11:59 pm.)
    (Final part 1 will be published)

week 10: November 28 - December 4
    (Regular Expressions & Review Quiz Chapter 10)
    (CSV reading and writing and Assert & a sample final presentation)
week 11: December 5 - December 11
    (12. Advanced Topics- args & kwargs and Iterators & Generators & sample final presentations)
    (Final part 1)
week 12: December 12 - December 16
    (Final week)

Final Exam:

- The due date for final part 1 (coding part) will be on Thursday, December 15 at 11:59 pm. Final part 1 will be opened two weeks before its due date.
- Final part 2 (multiple-choice questions) will be opened on Friday, December 16. Students can take it at any time between 9 am and **9 pm**.

=> Very Important Notice:

- **This item is very important:**
    - **Once students have completed the introductory survey, <u>they are responsible for dropping classes.</u>**
    - **Therefore, if students want to drop the class <u>THEY NEED TO DO IT</u>.**
    - **Please DO NOT wait for the college system or your instructor to drop you.**
    - **So, I do not accept any requests from students to drop the class or any other official communications.**
- **Again, students are responsible to check the Academic Calendar for important deadlines and any changes in the deadlines.**
- **To take the quizzes, midterm part 2 and final part 2:**
    - Students should have Zoom installed on their computers to take the exams.
    - Students need to have a camera on their computers.
- **Students should update their Canvas profile pictures with a picture showing their faces.**
- **Your first name and last name on Canvas should be your official first name and last name.**
- **For any questions, students should message me on Canvas (not email).**

De Anza Calendar:	http://deanza.edu/calendar
De Anza CIS Lab:	http://www.deanza.edu/buscs/labs.html
De Anza Canvas Web:	https://deanza.instructure.com/
Resources On Campus:	
Tutorial:	https://www.deanza.edu/studentsuccess/
EOPS:	https://www.deanza.edu/eops/
Counseling:	https://www.deanza.edu/counseling/
Mutual Respect Policy:	https://fhdafiles.fhda.edu/downloads/aboutfhda/4110.pdf
Student Grievance Procedure:	https://www.deanza.edu/policies/grievances.html
Student Rights & Responsibilities:	https://www.deanza.edu/student-complaints/rights-responsibilities.html
CARES Emergency Care Funds:	https://www.deanza.edu/resources/emergency-funds.html
Students with special needs to:	https://www.deanza.edu/dsps/index.html