

COLLEGE OF DUPAGE
CIS 2531 – Introduction to Python Programming – Course Syllabus

Carolyn England

COD Main #: 942-4125 Voicemail Ext. 4125

Office: BIC 1544B (Division Office TEC1034)

Mailbox: BIC 1E01

Office Hours: see

<https://www.cod.edu/faculty/websites/england/index.aspx>

e-mail: england@cod.edu

CIS 2531 Sec NET01
FALL SEMESTER 2021

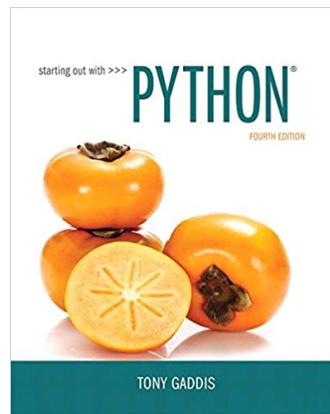
Online

Course Name: CIS 2531 – Introduction to Python Programming

Credit and Contact Hours: 4 semester credit hours (*4 lecture hours*)

Prerequisites: CIS 1400 Programming Logic and Technique with a grade of “C” or better, or equivalent OR consent of instructor

Textbook (Required):



Starting Out with Python by Tony Gaddis, Publisher:
Pearson Education, 4th Edition, ISBN-13: 978-0134444321, ISBN-10: 0134444329

Other Course Materials:

[Adobe Acrobat Reader](#), [Python 3.x](#) interpreter, note and test taking material (hardcopy, digital files, etc.), storage device (USB drive or cloud storage), assignment submission material (hardcopies, file upload, etc.)

Course Description:

Introduces the object-oriented programming language of Python. Course focuses on features of Python and develops skills for creating object oriented applications. Repeatable for credit: No

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Course Objectives:

Upon successful completion of this course, the student should be able to:

1. Create executable programs
2. Describe flow control structures
3. Demonstrate use of functions
4. Demonstrate use of strings
5. Demonstrate use of lists
6. Demonstrate use of classes
7. Explain object-oriented design techniques
8. Demonstrate ability to develop interactive procedural and object-oriented applications
9. Demonstrate use of tuples
10. Demonstrate use of sets
11. Demonstrate use of dictionaries
12. Describe file input/output (I/O)
13. Explain inheritance
14. Explain polymorphism
15. Explain dynamic binding
16. Compare sorting and searching techniques
17. Demonstrate use of Graphical User Interface (GUI)

Topical Outline:

1. Software development environment
2. Arithmetic operations
3. Logical operations
4. Decision making constructs
5. Loops
6. Functions
7. Characters
8. Strings
9. String class
10. Lists
11. Multi-Dimensional Lists
12. Tuples
13. Sets
14. Dictionaries
15. File operations
16. Classes
17. Inheritance
18. Polymorphism
19. Sorting and Searching
20. Graphical User Interface (GUI)

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Course Requirements:

Academic Honesty:

Course related academic integrity is an important component of College policies and the Computer Information Science curriculum. **Submitted program code will be run through a plagiarism checker** such as codequiry (<https://codequiry.com/>) to ensure original work is submitted.

Student academic dishonesty includes but is not limited to:

- Dishonest use of course materials, such as student papers, examinations, reports and material posted on the Internet.
- **Knowingly posting course materials of any kind on Internet sites such as (but not limited to) Course Hero and Chegg without the consent of the instructor.**
- Knowingly assisting others in the dishonest use of course materials such as student papers, examinations and reports.
- Knowingly providing course materials such as papers, lab data, reports and/or electronic files to be used by another student as that student's own work.
- Plagiarizing,i.e.,using language or ideas from materials without acknowledgement and/or copying work from other sources and submitting it as one's own.
- Examples of plagiarism include but are not limited to:
 - Copying a phrase, a sentence, or a longer passage from a source (*including an Internet source*) and submitting it as one's own.
 - Summarizing or paraphrasing someone else's ideas without acknowledging the source.
 - Submitting group assignments individually as one's own independent work.
 - Copying or taking pictures of course materials such as videos, exams, quizzes or assignments and posting the copied items and/or pictures on the Internet **or** sharing these copied items and/or pictures with other students who have not yet completed the assignments.
 - Taking pictures or copying course materials that are considered confidential by the instructor such as exams or quizzes.

Coursework submitted by the student that is either found online, significantly similar to other submitted work, or violates any of the above conditions, is subject to one or more of the following:

- Grade of 0 for the assignment
- Failing grade for the course
- Completion of Academic Dishonesty Form for recording in the Judicial Database

The College policy on academic integrity can be found in the College catalog under Student Services and General Student Information, Student Rights and Responsibilities, Code of Academic Conduct:

<https://catalog.cod.edu/student-services-general-student-information/>

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Access and Accommodations:

The College of DuPage is committed to the equitable access of educational opportunities for students with disabilities in accordance with The Americans with Disabilities Act, As Amended and Section 504 of the Rehabilitation Act of 1973. Any student who feels they may need an accommodation on the basis of an illness, injury, medical condition, or disability should contact the Center for Access and Accommodations to determine eligibility for accommodations and to obtain an official Letter of Accommodation. The Center for Access and Accommodations can be reached via email at access@cod.edu. Students may also initiate a request for services by going to www.cod.edu/access and clicking on the green box labeled “complete form to request accommodations.” **If you are already registered with the Center for Access and Accommodations, please email me your Letter of Accommodation within two weeks (14 calendar days) of the start of the semester or within one week (7 calendar days) of receipt of an official Letter of Accommodation** to ensure proper course accommodations are in place. Please **DO NOT** send any private health documentation or Doctor’s notes to me.

e-mail:

Every attempt will be made to answer e-mail on a 24 hour turnaround basis (during the Monday through Friday week; weekend messages will be responded to during the next scheduled office hour). When sending an e-mail please indicate your name, in which course you are currently enrolled, the problem you are having, and how best to contact you with a resolution.

Lab Assignments:

Lab assignments will be made available on Blackboard **at least** a week (7 calendar days) prior to their scheduled due dates. Assignment submission links on Blackboard are visible only until their due dates. **Once the due date/time has passed, the assignment submission link is removed from Blackboard and the assignment can no longer be submitted through Blackboard for class credit.**

In the event that ANY student experiences an unforeseeable circumstance that causes them to miss an assignment due date (**EXCEPT THE LAST ASSIGNMENT OF THE COURSE**), the student is given a **1 time option to complete** their assignment within **one week** (7 calendar days) of the original due date if the **instructor is notified within 72 hours** (3 calendar days) via email of the original due date to activate this option. The assignment will be graded with 2 weeks (14 calendar days) of the late submission date and have a recorded grade of 0 **until the last week of the semester**. After all other assignments for the semester have been submitted on time, the student's grade for the late assignment will be updated to reflect the earned points during the last week of the semester.

Mask Protocol:

As there is currently a mask mandate for the entire campus, which includes the classroom, you are required to wear your mask in the classroom or while you are on campus. Masks are available at Campus Central and in the Student Services Center. If you would like to make an accommodation request regarding COVID on the basis of a medical/health condition, please make your request through the Center for Access and Accommodations by going to <https://cod.edu/access> and clicking on the green box entitled Request Accommodations.

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Project:

A final project is required. Project objectives will be made available after the middle of the semester. Students will individually complete a project demonstrating their cumulative knowledge of course concepts. Projects will include a video presentation for viewing and grading at the end of the class.
NO LATE PROJECTS.

Quizzes:

There are several **timed** quizzes throughout the semester. **There are no make-ups for students missing a quiz.** There is one extra quiz for students missing a quiz or **extra credit** for students completing all scheduled quizzes. **Quiz submission links on Blackboard are visible only until their due dates. Once the due date/time has passed, the quiz submission link is removed from Blackboard and the quiz can no longer be submitted through Blackboard for class credit.**

Satisfactory/Fail/Incomplete

No Satisfactory/Fail/Incompletes are given in this course.

The College policy on Satisfactory/Fail (S/F) Grade Option can be found in the College catalog under Academic Policies and Procedures, Earning College Credit:

<https://catalog.cod.edu/academic-policies-procedures/>

Student Responsibilities:

This course involves reading, online research, discussions, assignments, and quizzes. Online can be more convenient, but do require a time commitment similar to campus courses. Online recommendations estimate that for each credit hour, students should expect to spend an additional 2-3 hours doing homework, readings, and discussions. For example, a 4-credit hour class would require 4 hours of class time, plus 8-12 hours of study, resulting in 12-16 hours total weekly investment.

Students experiencing difficulty with course material have the following available options for extra assistance:

- request instructor assistance through email or an appointment during scheduled office hours. Every attempt will be made to answer e-mail on a 24 hour turnaround basis (during the Monday through Friday week; weekend messages will be responded to during the next scheduled office hour). When sending an e-mail please indicate your name, in which course you are currently enrolled, the problem you are having, and how best to contact you with a resolution.
- utilize tutoring resources available through “**Student Support**” tab in Blackboard

Withdrawal Policy:

The last day to withdraw from this class is **11/14/2021**. After that date, students may file a Petition for Late Withdrawal through the Registration Office. Petitions for Late Withdrawal will be granted for extenuating circumstances only, including student illness, death in the immediate family, family emergencies, call to active duty, or other appropriate extenuating circumstances. The student will be required to provide appropriate documentation for all requests for Late Withdrawal. Prior to withdrawing from this class, students are encouraged to speak with the instructor.

The College policy on Withdrawals can be found in the College catalog under Academic Policies and Procedures, Course Withdrawals and Specialized Registration:

<https://catalog.cod.edu/academic-policies-procedures/>

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Method of Student Assessment:

Points are distributed in the following manner:

Lab Assignments	650
Projects	100
Quizzes	250
Total	1000

Final Grades are earned using the following scale:

Accumulated Points	Grade	Percentage
900 – 1000	A	>= 90
800 – 899.9	B	80 – 89
700 – 799.9	C	70 – 79
600 – 699.9	D	60 – 69
599.9 or lower	F	< 60

Finally:

Most students sign up for courses with the best intentions; however, circumstances can arise that challenge even the best students. If you are having difficulty with the course, the above requirements, or the College, please inform me (**before** a crisis develops) so that we can resolve them in a manner beneficial to all persons involved.

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Course Schedule and Due Dates:

To ensure successful course completion in a timely manner, various deadlines have been set. The deadlines set forth below are **firm deadlines**, which will not be extended *except in extraordinary circumstance*. (Please note that being busy with work, family, etc. does NOT constitute an extraordinary circumstance.) **The deadline time for each listed day is 11:30pm.**

Use the Blackboard “**Course Material**” menu item to access the individual units. All components of a unit are available on the first day of the semester; however, **Assignments and Assessments are available only until their listed Due Dates. Once the due date/time has passed, the submission links are removed from Blackboard and the assignment/assessment can no longer be submitted through Blackboard for class credit.**

The wise student will complete Discussion Board posts, submit Assignments, and complete Assessments earlier than their due dates. All grading for Discussion Board posts, Assignments, and Assessments will commence **after** the assigned due dates. **A minimum of two week turnaround for grading of Discussion Board posts, Assignments, and Quizzes can be expected.**

Textbook Readings	Assignment Due Date (11:30pm)	Quiz Due Date (11:30pm)
Course Administration and Policies Ch 1 Introduction to Computers and Programming App A Installing Python App B Introduction to IDLE	Tuesday, August 31, 2021	Wednesday, September 1, 2021
Ch 2 Input, Processing, and Output	Tuesday, September 7, 2021	Wednesday, September 8, 2021
Ch 3 Decision Structures and Boolean Logic	Tuesday, September 14, 2021	Wednesday, September 15, 2021
Ch 4 Repetition Structures	Tuesday, September 21, 2021	Wednesday, September 22, 2021
Ch 5 Functions (2 weeks) Ch 12 Recursion	Tuesday, October 5, 2021	Wednesday, October 6, 2021
Ch 6 Files and Exceptions	Tuesday, October 12, 2021	Wednesday, October 13, 2021
Ch 7 Lists and Tuples	Tuesday, October 19, 2021	Wednesday, October 20, 2021
Ch 8 More About Strings	Tuesday, October 26, 2021	
Ch 9 Dictionaries and Sets (2 weeks)	Tuesday, November 9, 2021	Wednesday, November 10, 2021
Ch 10 Classes and Object-Oriented Programming	Tuesday, November 16, 2021	Wednesday, November 17, 2021
Ch 11 Inheritance	Tuesday, November 23, 2021	Wednesday, November 24, 2021

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Textbook Readings	Assignment Due Date (11:30pm)	Quiz Due Date (11:30pm)
Ch 13 GUI Programming		Wednesday, December 8, 2021
Final Project	Tuesday, December 14, 2021	
Withdrawal From Class	Sunday, November 14, 2021	