CIS-2531 Syllabus

Course Title: Introduction to Python Programming
Semester Credit Hours: 4
Instructor: Brandon Brzuszkiewicz
Email: brzuszkiewiczb@cod.edu
Room: None (Online)
Office Hours: By Appointment via Zoom or Discord (Join: https://discord.gg/xsbADXvMbH)

Course Description

Introduces the object-oriented programming language of Python. Course focuses on features of Python and develops skills for creating object oriented applications.

Text Book

Starting Out with Python, 4th Edition, 2018, by Pearson
ISBN-10: 0134444329
ISBN-13: 9780134444321

Prerequisites

CIS 1400 Programming Logic and Technique with a grade of "C" or better, or equivalent or Consent of Instructor

Course Objectives

Upon successful completion of the course the student should be able to do the following:
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 interactinve procedural and object-oriented applications
9.   Demonstrate the use of tuples
10. Demonstrate the use of sets
11. Demonstrate the use of dictionaries
12. Describe file input/output (I/O)
13. Explain Inheritance
14. Explain Polymorphism
15. Explain dynamic binding
16. Compare soring and searching techniques
17. Demonstrate use of Graphical User Interfaces (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 Interfaces

Course Requirements

Student Responsibilities: Active participation is essential if you are to receive maximum benefit from the class. Participation requires preparation including completion of reading, labs, assignments, assessments, and exams by the due dates. All due dates will be mentioned on the class blackboard. You are responsible to submit all work on or before the due dates. Please manage your time wisely.

Assignments & Quizzes: This course involves many hands-on activities and programming assignments. All Assignments and quizzes must be completed as scheduled. It is extremely critical that you complete all tasks on time. All quizzes given are considered as a test for each topic covered. Collaboration and teamwork are encouraged; however, you must submit and do your own work. All tasks mentioned above will be assigned via class blackboard.

Office Hours: Office hours for the summer sessoin will be held by appointment only. I'm a full time high school teacher and I'm off for the summer. I'm sure you all have varying schedules and demands. I will work with you on a good time to meet through a video conference or we can discuss issues via discord.

Email: Every attempt will be made to answer e-mail on a daily basis. When sending e-mails please indicate clearly the problem or concern you are having with an attachment of the program if necessary, your name, and course enrolled. All communications and e-mail will be through the college email and blackboard. For more immediate responses please send a direct metssage through discord.

Academic Integrity Policy: Any violation of the college policies regarding academic integrity will be referred automatically to the appropriate college authorities for disposition. Please visit the college Academic Integrity Policy details at the following website: https://www.cod.edu/dean-of-students/academic-integrity.aspx

Withdrawal policy: Missing three or more assignments or assessments before mid-term will result in the student withdrawn from the class for Non-Pursuit of the course objectives. No longer attending a class does not constitute an automatic withdrawal. All withdrawals must be done on or before 11/15/2020. After that date, you will no longer be allowed to drop the course.

Classroom behavior (if applicable): During the class meeting time, considerate conduct by all persons is important to a favorable learning environment. Any infringement on the rights of others to get an education will be dealt with in an appropriate manner. Please set all electronic devices such as cell phones or pagers to silent mode. No cell phone talks are allowed in the classroom. If you must take the call, please continue your conversation outside of the classroom and make it short so you will not miss your lectures.

General notes: Most students sign up for courses with the best intentions. If you are experiencing course/collage related problems, please feel free to talk to the instructor before a crisis develops so that we can resolve them in a manner beneficial to all parties involved.

Grading and Evaluation Criteria

Your final grade will be based on accumulation points of all class work including assessments, labs, homework, and exams.

A – 90% and up
B – 80 to < 90
C – 70 to < 80
D – 60 to < 70
F – 59 below
Pass/Fail Grade >= 70%
An incomplete grade is not allowed.

Course Expectations

1. This course is an online course. You need access to a laptop or at least have access to a computer to complete all your assignments. Access to the Internet is compulsory. Your active participation and engagement are vital if you plan to obtain maximum benefit from the class. Participation requires preparation and completion of assignments, reading, and quizzes by the due dates. Your time management is imperative in this course.

2. All assignments have due dates. Please check each assignment's due date on the class

Blackboard (Bb). **During the summer session late work will not be accepted, unless approval is granted prior to the due date.**

3. In order to achieve a full score on your assignment, complete work must be submitted by following all requirements and specifications. Unless requested by the instructor, no assignments should be sent to the instructor's email address. Any assignments sent to the the instructor's email without permission will be disregarded. Discussions and collaborations are permitted. However, you must do your assignments. Dishonest work will be handled on a case by case basis and will be reported to the college. Penalties can include but are not limited too: a reduction in points, a zero on the assignment, a redo of the assignment, a fail for the course, drop from the course.

4. All assignments submitted will be checked for plagiarism through the blackboard's SafeGuard Application tool. Any academic dishonesty or violations found will be dealt with on a case by case basis and may be subject to the penalties listed above

5. If you are caught plagiarizing, all of your previous work relating to the course will be re-examined and re-evaluated. All of your future work in the course will be closely scrutinized.

6. You understand the course syllabus and the grading criteria as mentioned. You understand that the grading distribution is fixed. You understand that there is no grading curve, and no percentage round-up to the nearest higher grade.

7. Please notify your instructor if you require special access and accommodation. Your instructor will provide and follow the accommodation based on documents specified at the school's Access and Accommodation Center. No additional accommodation will be adapted.

8. An incomplete grade is not allowed.

9. You may be dropped from the course if you do not participate in the course activity, or do not submit your required assignments in two or more consecutive weeks.

10. Most students sign up for courses with the best intentions. If you are experiencing course/college related problems, please feel free to talk to your instructor before a crisis develops so that you and your instructor can resolve them in a manner beneficial to all parties involved.

11. Excuses such as the following are not acceptable:

- I forgot.
- I am not aware of the due date.
- I am busy with work or other classes.
- I have an exam in my other course.
- I was not aware that I did not submit my assignment.
- I don't understand the assignment (at the eleventh hour before the due date).
- I am sick (whenever the assignment is due).
- The instructor never explains to me how to do the assignment.

12. Bad planning on your part is not an emergency on the instructor's part.

Tentative Course Schedule

Click the link below for a calendar for our course schedule and assignment due dates

https://calendar.google.com/calendar/u/0?cid=ZHVkN3Vxdm9xMjA1bTZiNzlkNDFsNWNsMnNAZ3JvdXAuY2FsZW5kYXIuZ29vZ2xlLmNvbQ

Assignments, Assessments and Labs will be made available on Blackboard