

CS 1103 – Computer Programming

Session: Spring/2021

Class:

CS1103, CRN 26390, Engineering South 201B, Stillwater, at 1:30-2:45 p.m., Tuesday & Thursday

Instructor:

Dr. Moawia Eldow

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Virtual Office Hours:

Tuesday & Wednesday, 3:00-5:00 p.m.

Other times available by appointment

TA: TBA

Course description

Introduction to computer programming using a high-level computer language including subprograms and arrays. Principles of problem solving, debugging, documentation and good programming practice. Elementary methods of searching and sorting. Not intended for computer science majors.

Course objectives

By the end of the course, all students should be able to

- develop good programming practice and understand how Python works
- perform mathematical operations and work with and manipulate strings
- collect user input and output results and perform flow control processing
- write functions and modules
- read from and write to the files
- work with different containers and design complex structures debugging

Textbook:

In this class, a textbook with MyLab Programming will be used. Most of the lab homework and program assignments will be covered through this platform beside existing of e-text, so students must register on MyLab Programming to access the materials.

Starting out with Python, 5th Edition, 2021

By Tony Gaddis, Publisher: Pearson, ISBN-13: 9780136661573.

Following steps are to be followed for completing the registration:

1. Go to the site:

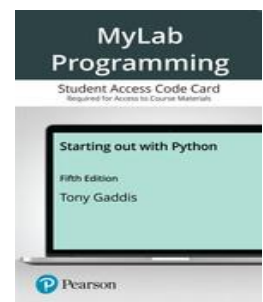
<https://mlm.pearson.com/northamerica/myprogramminglab/>

2. Use the access code you obtained from campus library or buy new access code, and select the title: **Gaddis, Starting out with Python, 5th Edition, 2021** (Exactly same as above picture)

3. Create new account or sign in

4. Enter the course ID: **OKLSTA-4438-0**

5. Register to the class



Note: please use your OSU email and your last & first name as shown in the university records.

Software:

Python 3.8.1 (Release Date: Dec. 18, 2019) or any later release.

Grading:

Lab Homework	30%
Programming Assignments	30%
Quizzes & In-Class Activities	10%
Midterm Exam	15%
Final Exam	15%

Grading Scale:

for score x in 90 _ x	A
80 _ x < 90	B
70 _ x < 80	C
60 _ x < 70	D
x < 60	F

Lab Homework:

There will be labs on each chapter that might be completed using various exercises available in MyLab Programming. ***Lan homework will be due at 11.55 p.m. on next Thursdays.***

Programming Assignments:

Programming assignments are one of the important components of this course. The reason is simple: you learn a programming language best by using them. These assignments should be accomplished using the MyLab Programming or any other Python development environment. ***Programming assignments will be due at 11:55 p.m. on next Fridays.***

Quizzes and in-class activities:

In some classes, ***there will be quizzes or in-class activities.*** Attendance is also important for this class; you will get some points after attending each class. ***Quizzes will be online quizzes through Canvas.***

Exams:

There will be one midterm exam during the semester at the normal lecture time, which will cover the first half of the class topics. There will also be a final exam during finals week, which will cover the second half of the class topics. ***Exams will be online exams through Canvas.***

Student Expectations:

To do well in the class, students are expected to

- Keep up with the textbook material Via e-text on MyLab Programming or other resources.
- Read or view the instructional material posted to Canvas frequently.
- Ask for help if any of the material covered in class is not clear.
- Complete the quizzes, exams, lab homework and programming assignments and submit them before their deadlines either on Canvas or on MyLab Programming.
- Regularly check e-mails and course website for announcements.

E-mail Policy:

E-mail is the preferred communication medium. Use “**CS 1103**” as the start of the subject/title for all e-mail communications.

Late Submission & Make-up Policy:

No make-up exams will be scheduled except in extreme cases. If you are going to miss an exam or quiz, contact the instructor in advance. Exceptions can be made if a serious family or personal emergency arises.

Assignments may be turned in late, but not more than one week. All the late submissions may lose a percentage of their graded point values according to the following schedule:

On time :	0%
1-2 days :	10%
3-4 days :	20%
5-7 days :	40%
> 7 days :	100%

Academic Dishonesty:

Scholastic conduct must be acceptable, that is, students are expected to do their own work.

Discussion of homework assignments is encouraged, but students must work independently on their program submissions. Sharing of code is strictly forbidden. Violations of academic integrity rules will result in significant punishments, up to and including a final course grade of an F! (F-shriek, indicating an academic integrity violation on your permanent transcript).

Disabilities act:

If any student feels that he/she has a disability and needs special accommodations of any nature whatsoever, the instructor will work with you and the Office of Disabled Student Services, 326 Student Union, to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the desired accommodations at some point before, during, or immediately after the first scheduled class period.

University Syllabus Attachment

Other useful information, such as important dates and further policies, throughout the semester, can be found on the following links ([You can click on Spring 2021 Syllabus Attachment](#)):

<https://academicaffairs.okstate.edu/faculty-development/index.html>

Course Outline (Tentative Schedule):

<u>Week</u>	<u>Reading chapters and Topics</u>	<u>Homework (H), Program (P), Quiz (Q)</u>
Jan 18-22	Overview of class & MyLab Programming Ch1: Introduction to Computers and Programming	H1
Jan 25-29	Ch2: Input, Processing, and Output	
Feb 1-5	Ch2: Input, Processing, and Output	H2, P1
Feb 8-12	Ch3: Decision Structures and Boolean Logic	Q1 (ch1 & ch2)
Feb 15-19	Ch3: Decision Structures and Boolean Logic	H3, P2
Feb 22-26	Ch4: Repetition Structures	Q2 (ch3)
Mar 1-5*	Ch4: Repetition Structures Thursday, March 4 (Wellness day, no classes)	H4, P3
Mar 8-12	Tuesday, March 9 (Mid-Term Exam) Ch5: Functions	
Mar 15-19	Ch5: Functions	H5, P4
Mar 22-26	Ch6: Files and Exceptions	H6,
Mar 29-Apr 2	Ch7: Lists and Tuples	Q3 (ch5 & ch6)
Apr 5-9	Ch7: Lists and Tuples	H7, P5
Apr 12-16	Tuesday, April 13 (Wellness day, no classes) Ch8: More About Strings	H8, Q4 (ch7)
Apr 19-23	Ch9: Dictionaries and Sets	H9, P6
Apr 26-30	Review Week	
May 3-7	Final Exam (TBA)	

(*) Tuesday, March 3 (**Six-week grades due**)

- The points of H1, H2, H3, P1, P2, Q1 and Q2 will be collected for these grades.