Fall 2020[1]
Computer Science I — Maíra Marques Samary PhD
Section 5 – Tuesday and Thursdays – 12:00PM – Fulton 250

Office Hours:

Online: Monday and Friday 10:00 AM to 11:00 AM
https://bccte.zoom.us/my/margemo

TA's Office Hours – online
James Monahan - monahajm@bc.edu - https://bccte.zoom.us/j/2822792652
Tuesdays 7:00 PM – 8:00 PM
Wednesdays 4:00 PM – 5:00 PM
Jennifer Joseph - - josephjz@bc.edu - https://bccte.zoom.us/j/5882755193
Wednesdays 11:00 AM – 12:00 PM
Thursdays 3:00 PM - 4:00 PM
Liam Murphy- - murpaue@bc.edu - https://bccte.zoom.us/j/3085424208
Tuesdays 2PM-4PM

Discussion Groups:
CSCI100701 - Tuesday 6:00 PM – 6:50 PM- Fulton Hall 220 (James Monahan)
CSCI100702 - Thursday 5:00 PM – 5:50 PM – Fulton Hall 220 (Jennifer Joseph)
CSCI100703 - Wednesday 4:00 PM – 4:50 PM – Gasson Hall 203 (Liam Murphy)

SYLLABUS

General Goal

The main goal of this course is that you learn how to program in Python 3 and use the computer as a tool to solve more general problems.

Evaluation

- Discussion groups every week – participation will worth 10% of the course grade
- Everything will be graded from 0 to 10
- 7 assignments
  - 30% of the course grade
  - To approve you need to complete and have at least 60% of the assignments with grades <=6 (each assignment will be graded from 0 to 10).

[1] Version September 1, 2020

- 3 Midterms – 20% of the course grade (to approve the course you will need an average grade >= 6)
- Quiz – Weekly quiz – 20%
- Exam – 20% of the course grade

All grades will be published on Canvas.

About Homework Grades
If you want a re-evaluation of a homework grade, you can ask for re-evaluations until **20** days of the grade being published. In case of re-evaluation of assignments, the re-evaluation must be done by the TA. In case you are not happy with it, you can ask me to look, but be aware that I will re-grade the whole evaluation and not a specific item.

About Midterm Grades
Any complaints about midterm grades will not be discussed through emails. I will not answer any emails related to midterm grades complaints. Any complaints about midterm grades will not be discussed through emails. I will not answer any emails related to midterm grades complaints. After the grade is published and we have a class that will go through the whole evaluation, I will send everyone a Google Link to a special calendar. Where you can schedule a specific day and time to talk to me about your midterm.

Any submission that does not run will have an automatic 0.
All submissions must be done through Canvas. Emails submissions will not be accepted at all!
This course is not curved. So, your grade will reflect your own effort.
There are not extra credits in this course!

Learning Accommodations

Students who need special accommodations for exams due to a learning disability should contact The Connors Family Learning Center; for other types of disabilities, contact the Disability Service Office.

Academic Honesty

It is easy to spot copied code, as the odds that two people would write their programs in exactly the same way is as unlikely as that they would structure their papers the same. Boston College takes cheating seriously (https://www.bc.edu/offices/stserv/academic/integrity.html) When faced with a choice between getting help or copying code, always opt for the former. If asked by a classmate to share your code, refer the person to the course staff for help instead.

During the course, I will perform a cheating test in all assignments using Moose (an online software that compares code logic – a lot more complex than just comparing variables names). So, be aware that if assignments are found to be with similarity bigger than 80%, all students involved will receive a 0 in the HW the first time it happens and in the second they will receive an automatic F (all the other grades will be erased) and the case will be reported to the Dean for investigation and BC penalties.

Course Information

Canvas is the official holder of course information. Grades, slides and code will be posted there.
Assignment's will also be submitted through canvas.

Textbook

There is no required textbook for this course.
A good place to start is Think Python, 2nd edition, by Allen B. Downey. You can download it for free download it for free, or buy it on Amazon for less than $30. It's more concise and readable than most textbooks. I will not completely follow the book order, and may explain some things differently from the way the book does.

Software

Python 3.8 (the latest version is 3.8.2 – but any 3.7 version or bigger will work the same)
Be aware that some operating systems already have Python installed and is an old version Python 2.7. And from the version 2 to 3, Python changed a lot, so it is not the same.
You will also need to have installed on your computer the following libraries of Python: numpy and matplotlib.
Official Download Page
https://www.python.org/downloads/

Official Documentation Page of Python
https://docs.python.org/3/library/

Assignments

I strongly advise you to start every assignment within a day or two of receiving it, so that you will be able to find out where the troublesome parts are and ask meaningful questions in class, discussion sections, and office hours. The assignments are not meant to be completed in a single late-night session.

All assignment deadlines are **on Canvas**

Late assignment deliveries will be penalized **1.0** each day – you deliver in time, your assignment max grade is 10, you deliver 1 day later, max grade is 9; 2 days later, max grade is 8.

Schedule (subject to changes if needed)

Week	Dates	Groups	Topic	Book	Assignments
1	1-Sep	A, B, C, D	Introduction	Chapter 1	
	3-Sep	E, F, A, B	Intro to Idle and Variables	Chapter 2	
2	8-Sep	C, D , E, F	If/Elif/Else	Chapter 5 (5.1 to 5.7)	
	10-Sep	A, B, C, D	While	Chapter 7 (7.1 to 7.4)	Assignment 1 - Due Date
3	15-Sep	E, F, A, B	Functions	Chapter 3	
	17-Sep	C, D , E, F	Functions	Chapter 6	
4	22-Sep	A, B, C, D	Review		
	24-Sep	E, F, A, B	Midterm 1		Assignment 2 - Due Date
5	29-Sep	C, D , E, F	Lists	Chapter 10 (10.1 to 10.6)	
	1-Oct	A, B, C, D	Lists and Strings	Chapter 8 and 9	
6	6-Oct	E, F, A, B	File processing	Chapter 14 (14.1 to 14.5)	
	8-Oct	C, D , E, F	File processing		Assignment 3 - Due Date
7	13-Oct		Monday Schedule - No classes		
	15-Oct	A, B, C, D	Sub-List	Chapter 10 (10.8 to 10.13)	
8	20-Oct	E, F, A, B	Sub-List		
	22-Oct	C, D , E, F	Bits		Assignment 4 - Due Date
9	27-Oct	E, F, A, B	Review		
	29-Oct	C, D , E, F	Midterm 2		
10	3-Nov	A, B, C, D	Recursion	Chapter 5 (5.8 to 5.14)	
	5-Nov	E, F, A, B	Recursion		Assignment 5 - Due Date
11	10-Nov	C, D , E, F	Tuples and Sets	Chapter 12 (12.1 to 12.5) and 19.5	
	12-Nov	E, F, A, B	Dictionary	Chapter 11	
12	17-Nov	C, D , E, F	Dictionary/Review	Chapter 13 (13.1 to 13.7)	
	19-Nov	A, B, C, D	Midterm 3		Assignment 6 - Due Date
13	24-Nov	A, B, C, D	Numpy		
	26-Nov		No Classes - Thanksgiving Holiday		
14	1-Dec	A, B, C, D	Matplotlib		
	3-Dec	E, F, A, B	High Order Functions	Chapter 10.7	Assignment 7 -Due Date
15	8-Dec	C, D , E, F	Sorting and Searching		
	10-Dec	A, B, C, D	Sorting and Searching		
Tuesday 12/15 - 4:00 PM				**Final Exam**	
Wednesday 12/13 - 9:00 AM				**Final Exam Make Up**	