SYLLABUS – INTRODUCTION TO COMPUTER SCIENCE I

CSC 241–801 | WINTER 2018 – 2019

Class: Wednesday, 5:45 pm – 9:00 pm, 14 E. Jackson, Room 512   **Professor**: Brenda Maya

Lab: Thursday, 6:45 pm – 8:15 pm, 14 E. Jackson, Room 512   **Lab Instructor**: Eric Haerr

CONTACT INFORMATION

I am best available through email and will respond within 24hours. I am employed full-time, outside of DePaul, and am therefore most likely to respond to emails later in the evenings. If you do not receive a response within 24hours, a follow-up email may be sent to bring this to my attention.

Email: bmaya@depaul.edu
Skype: bmaya1

OFFICE HOURS

Wednesdays: 5:00 - 5:30 pm – 14 E. Jackson, Room 512
Fridays: 4:30 - 5:30 pm – 14 E. Jackson, Room 512

Office hours are held in 14 E. Jackson, room 512. During office hours, I am available in person, by e-mail, or using Skype. Since multiple students may attend office hours, it is possible that there may be some delay before I respond to e-mail or Skype messages.

Feel free to use office hours to ask questions about assignments, class lectures, labs, etc. If you are unable to attend office hours, but want to speak in person, please email me to make an appointment outside of the assigned office hours.

Office hours are not held the week of final exams.

COURSE WEBSITES

Desire2Learn (D2L):

The main site for course material is Desire2Learn (D2L). D2L is available at: https://d2l.depaul.edu/. Class notes, programming assignments, lab assignments, study guides for exams, and other course materials will be available through the D2L site. The class recordings are also available on D2L. While you are expected to attend all classes, the recordings can be useful for review.

CodeLab:

CodeLab is also used for this course, and can be found at: http://www.turingscraft.com/go.html. Documentation is available on D2L (*Content > Admin*) showing how to register for the correct CodeLab section. It is required to purchase full access to CodeLab for $25. Without full access, only 10 submissions are permitted, and submitting future labs/assignments will not be possible. Please refer to the documentation on D2L for further instructions on purchasing full access.

PREREQUISITES

Ordinarily the prerequisite for this class is MAT 130 or an equivalent high-school or college course covering algebra and precalculus. This will be waived for this section, but students without algebra and precalculus are responsible for working with the instructor, the course TA, and tutors in order to make up any material needed for the course assessments.

COURSE TOPICS AND LEARNING GOALS

This course is the first of a two-course sequence introducing Computer Science. The focus of the course is on problem solving, algorithm development, and object-oriented programming using Python and the Python API (application programming interface), all in the context of building computer applications.

In the first course, we will focus on structured programming and learn how/when to use conditionals, loops, and functional and modular abstractions.

After you have taken this class:

1. You will understand that a main focus of computer science is developing applications for computer systems.
2. You will have stronger problem-solving skills.
3. You will know how to develop algorithmic solutions for basic computational problems.
4. You will understand fundamental programming structures such as expressions, assignments, decision and iteration structures, functions and modules.
5. You will have basic Python programming skills.
6. You will be prepared for the second course in the sequence, CSC 242: Introduction to Computer Science II

COURSE CALENDAR

The following gives all the important dates for this course. The topics covered are subject to change.

Week	Date	Topic/Deadline
1	Wednesday, January 9, 2018	Introduction to the course and Python Input structures, type operators, and numeric types
	Thursday, January 10, 2018	Lab 0
	Friday, January 11, 2018	**11:59 PM Deadline to add classes to WQ2019 schedule**
2	Wednesday, January 16, 2018	Decision structures, strings, lists, and iteration structures
	Thursday, January 17, 2018	Lab 1
	Friday, January 18, 2018	**Last day to drop WQ2019 classes with no penalty**
3	Monday, January 21, 2018	**Martin Luther King Day – University officially closed**
	Wednesday, January 23, 2018	Functions, strings modules and objects, formatted output
	Thursday, January 24, 2018	Lab 2
4	Wednesday, January 30, 2018	File processing Exceptions and error handling
	Thursday, January 31, 2018	Lab 3
5	Wednesday, February 6, 2018	More about decision structures and loop patterns (counter and accumulator loops)
	Thursday, February 7, 2018	Lab 4
		Begin SQ2019 and Summer 2019 Registration
	Friday, February 8, 2018	**Midterm Exam Review Session** 14 E. Jackson, room 512 - During office hours
6	Wednesday, February 13, 2018	**Midterm Exam: 5:45 – 7:15 PM**
		Lecture: 7:30 – 9 PM More loop patterns (nested loops, multidimensional lists, and while loop)
	Thursday, February 14, 2018	Lab 5
7	Wednesday, February 20, 2018	Discussion of the midterm. More loop patterns (infinite and interactive loops) and dictionaries
	Thursday, February 21, 2018	Lab 6
	Friday, February 22, 2018	**Last day to withdraw from WQ2019 classes**
8	Wednesday, February 27, 2018	Dictionaries, other collection types (tuples and sets), and character encodings
	Thursday, February 28, 2018	Lab 7

9	Wednesday, March 6, 2018	More functions, modules, module namespaces, and the random module
	Thursday, March 7, 2018	Lab 8
10	Wednesday, March 13, 2018	The random module, an introduction to classes, and a quick review for the final
	Thursday, March 14, 2018	Lab 9
	Friday, March 15, 2017	**Final Exam Review Session** 14 E. Jackson, room 512 - During office hours
11	Wednesday, March 20, 2018	**Final Exam: 6:00 PM – 8:15 PM**

TEXTBOOK

Introduction to Computing Using Python: An Application Development Focus, Second Edition
Ljubomir Perković, John Wiley & Sons, 2015
ISBN: 9781118891056.

GRADING POLICY

Course assessments include lab attendance, programming assignments, and a midterm and final exam. The course grade will be computed as follows:

Assessment	Percentage
Lab attendance and exercises	10 %
Programming assignments	25 %
Midterm exam	32 %
Final exam	33 %

All students will be required to sign and return an Academic Integrity pledge at the start of the quarter. The Academic Integrity pledge will be posted on the D2L site. The pledge must be signed and returned as a part of the first homework assignment. Students that violate this agreement are violating the Academic Integrity policy of DePaul University. See the section on Academic Integrity below for more information about that policy and penalties for violating it.

In order to do well in this class, you must attend the class sessions and labs regularly, participate in class discussions, read the chapters in the book as indicated in the homework assignment, start work on the assignments early, and ask questions early and often. The answers to the programming assignment and the lab and exam questions should be written in a way that is rigorous, clear, and concise.

GRADING SCALE:

The final course grade will be given based on the following scale:

100 - 93	A
92 - 90	A-
89 - 87	B+
86 - 83	B
82 - 80	B-
79 - 77	C+
76 - 73	C
72 - 70	C-
69 - 67	D+
66 - 60	D
59 - 0	F

LAB ATTENDANCE AND EXERCISES

Each week you will have a lab session conducted by our teaching assistant *Eric Haerr*. Your attendance at the lab session and completion of lab exercises is required and will count toward a portion of the final course grade assigned. No late lab submissions are accepted for any reason. Your lowest lab score will be dropped in the calculation of your course grade.

PROGRAMMING ASSIGNMENTS

Each week you will have a programming assignment. Each programming assignment will have a posted deadline, specified on the assignment. ***No late assignments are accepted for any reason***. Your lowest assignment score will be dropped in the calculation of your course grade.

MIDTERM AND FINAL EXAMS

The midterm and final exams will be cumulative. The midterm exam will take place on Wednesday, February 13, 2018 from 5:45 – 7:15 pm. The final exam will take place on Wednesday, March 20, 2018 from 6 – 8:15 pm. Both exams will be conducted in the regular classroom and will require you to write Python code.

Make-up exams will not be given. If you wish to petition for a make-up exam, you must notify me in advance and provide documented evidence of the emergency that will cause you to miss the exam. Failure to contact me in advance of the exam date and time will disqualify you from being allowed to take a make-up exam. If a make-up exam is granted, it will be of a form of my choosing.

You may consult with your homework partners, the teaching assistant, the instructor, and the CDM tutors on the programming assignments, but you may not under any circumstances submit code that you have not helped to write, nor may you consult anyone beyond those specified when completing your assignments.

ONLINE COURSE EVALUATIONS

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in Campus Connect: http://campusconnect.depaul.edu/

ACADEMIC INTEGRITY

The course adheres to the DePaul University's Academic Integrity Policy. For complete information about Academic Integrity at DePaul University, please see: http://academicintegrity.depaul.edu/

Cheating is any action that violates university norms or instructor guidelines for the preparation and submission of assignments. This includes, but is not limited to, unauthorized access to examination materials prior to the examination itself; use or possession of unauthorized materials during the examination or quiz; having someone take an examination in one's place; copying from another student; unauthorized assistance to another student; or acceptance of such assistance. Plagiarism involves the presentation of the work of another as one's own. Plagiarism includes, but is not limited to the following: the direct copying of any source, such as written and verbal material, computer files, audio disks, video programs or musical scores, whether published or unpublished, in whole or part, without proper acknowledgment that it is someone else's; copying of any source in whole or part with only minor changes in wording or syntax, even with acknowledgment; submitting as one's own work a report, examination paper, computer file, lab report or other assignment that has been prepared by someone else (including research papers purchased from any other person or agency); the paraphrasing of another's work or ideas without proper acknowledgment; working so closely with another person so as to produce identical code.

The use of others' web/publication content (text, graphics, code) is regarded as plagiarism if credit is not given (see the above description of plagiarism). When you directly quote someone's work, you must put it in quotation marks. Without such quotations and reference, it is regarded as an act of plagiarism (see the above description of plagiarism). Using materials that the student prepared for other purposes (e.g., for another course or for his/her work) needs the course instructor's prior permission. A charge of cheating and/or plagiarism is always a serious matter. It can result in an automatic F in the course and possible expulsion.

INCOMPLETE

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

CHANGES TO SYLLABUS

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L, and sent via email.

STUDENTS WITH DISABILITIES

DePaul University is committed to ensuring equal access to its educational and extracurricular opportunities for students with disabilities. The Center for Students with Disabilities (CCSD) offers reasonable academic accommodations and services to support our students. Please see https://offices.depaul.edu/student-affairs/about/departments/Pages/csd.aspx for Services and Contact Information.