

CSC 241: Introduction to Computing I

4 Credits – Fall 2021

Dr. Umer Huzaifa

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Basic Information

Time and Location:

- Lecture: Tuesday Thursday 10:10 AM - 11:40 AM
- Lab Session: Tuesday 08:30 AM - 10:00 AM

Instructor:

- Dr. Umer Huzaifa (mhuzaifa@depaul.edu)
- Please include “[CSC 241]” in your email subject line.
- Office Hours: M 02:00 PM – 03:00 PM, Fri 02:00 PM – 03:00 PM

Textbook:

Introduction to Computing Using Python: An Application Development Focus, by Ljubomir Perkovic. The textbook is available in the bookstore as well as online on [Amazon](#).

Online Resources:

- D2L CSC 241 page
- Discord group [link](#)

Catalog Description

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 structured 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 and when to use conditionals, loops, and functional and modular abstractions. After you have taken this class, you will:

- Have skills of using Python constructs including expressions, functions, classes and execution control methods.
- Have understood fundamental programming structures such as expressions, assignments, decision and iteration structures, functions and modules.
- Have the capability to develop computational solutions for problems.
- Be ready for the second course in the sequence, CSC 242: Introduction to Computer Science II.

Prerequisites: MAT 130 or Mathematics Diagnostic Test placement into MAT 140.

Evaluation and Grading

Exams:

The two exams are scheduled as follows:

- Mid Exam - Thursday October 12, 2021
- Final Exam - Tuesday November 23, 2021

Homework:

Weekly assignments derived from the textbook will be posted here. No late submission will be accepted. A total of 8 homework

Lab Sessions:

- This will be held with a teaching assistant conducting laboratory exercises. Instructions and guidance will be provided for each assigned task on D2L.

Grading:

Course elements contribute to the overall course grade as follows:

Lab Sessions (9)	15 %
Homework (9)	25 %
Midterm Exam	25 %
Final Exam	35 %

Grading is straight percentage as follows: 90% A, 80% B, 70% C, 60% D.

Gradescope:

Gradescope will be used for some items in this term, which allows to provide fast and accurate feedback on your work. These items will be returned to you through Gradescope no matter how they were submitted in the first place. As soon as grades are posted, you will be notified immediately so that you can log in and see your feedback. You may also submit regrade requests if you feel we have made a mistake.

Honor Code

- The course adheres to the DePaul University's policy on Academic Integrity. For complete information, please see: <http://academicintegrity.depaul.edu/>
- Cheating is any action that violates university norms or instructor's 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.
 - 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.
- Avoid any form of or the appearance of any form of academic misconduct, which will result in a minimum penalty of zero credit for the work in question, and may result in a maximum penalty of a failing course grade. Examples include:

Schedule

Reading assignments are from the textbook. The topics schedule is tentative, and subject to change during the quarter. As the quarter progresses, you will find the relevant documents i.e. the lecture slides, video recordings, handouts etc. linked here in the schedule.

Weeks	Topic	Homework	Labs	Reading
Sept 9 - Sept 16	Interpreter and Expressions (Fundamental Python Data Types)	—	Lab 1	Ch. 1, 2

Weeks	Topic	Homework	Labs	Reading
Sept 17 - Sept 23	Imperative Programming (if, for, functions)	HW 1	Lab 2	Ch. 3
Sept 24 - Sept 30	Output Formatting, File Read and Write	HW 2	Lab 3	Ch. 3, Sec. 4.1, 4.2
Oct 1 - Oct 7	-- (Lecture Rec. + Discussion)	HW 3	Lab 4	Ch. 4
Oct 8 - Oct 14	Mid Term Exam 10/12/2021 (Exam File + Solution)	—	—	Mid Exam Review
Oct 15 - Oct 21	Exceptions	HW 4	Lab 5	Sec. 4.4
Oct 22 - Oct 28	Programming Patterns	HW 5	Lab 6	Ch. 5
Oct 29 - Nov 4	More Collection Data Types	HW 6	Lab 7	Ch. 5
Nov 5 - Nov 11	Algorithm Development Functions and Namespaces	HW 7	Lab 8	Ch. 6
Nov 12 - Nov 18	Algorithm Development Functions and Namespaces (Cont'd)	HW 8	Lab 9	Ch. 7
Finals Week	Final Exam 11/23/2021 (Exam File + Solution)	-	-	Final Exam Review