

CIS 1051: Introduction to Problem Solving and Programming in Python

Section 011

Summer I 2020

Instructor: Amitangshu Pal

Office: Science Education and Research Center (SERC), Room 372

Office hours: Thursday: 3:00 -5:00 and by appointment with sufficient notice

EMAIL: amitangshu.pal@temple.edu

Textbooks:

1. Cay S. Horstmann and Rance D. Necaise, “Python for Everyone”, 3rd Edition, Wiley (2018)

Lectures: Monday/Tuesday/Thursday 10:45AM – 12:45PM In Zoom

Laboratory: Tuesday/Thursday 08:30AM – 10:30AM In Zoom

Lab TA: Amitangshu Pal

Office: TBA

Office hours: TBA

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Course description:

Introduction to programming in Python, procedural programming, data types, arithmetic and strings, conditional execution, loops, functions, lists and files, exception handling, sets and dictionaries.

Prerequisites: MATH 1021|Minimum Grade of C|May not be taken concurrently
OR MATH 1022 to 4999| Required Courses:1|Minimum Grade of C-|May be taken concurrently
OR MC5 Y|May not be taken concurrently
OR MC6 Y|May not be taken concurrently
OR MA03 Y|May not be taken concurrently
OR STAT 1001|Minimum Grade of C|May not be taken concurrently
OR STAT 1102|Minimum Grade of C-|May not be taken concurrently
OR STAT 1902|Minimum Grade of C-|May not be taken concurrently
OR MC6A Y|May not be taken concurrently
OR MATW Y|May not be taken concurrently.

Course Objectives: The primary objectives for this course are to introduce you how to design a program to solve a problem using procedural programming constructs such as loops, branching structures, and functions in python.

Grading: Grades will be posted on Canvas

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| Labs | 30 |
| Quizzes | 10 |
| Midterm | 30 |
| Final | 30 |

Course Withdrawal: Students may withdraw as long as it meets university guidelines.

Academic Freedom: Temple has adopted a policy on Student and Faculty Academic rights and responsibilities (Policy 03.70.02) at: <http://policies.temple.edu/>.

Academic Integrity: Please review Temple's policies on academic honesty and other student responsibilities at:

http://www.temple.edu/bulletin/Responsibilities_rights/responsibilities/responsibilities.shtm

Do not cheat in this class. I take this very seriously as does the university!! This includes plagiarism. If you quote someone else's material, you **MUST** cite it properly. This includes all material taken from the Internet. If you copy work from the Internet or another source, and do not cite it properly, you will fail this course. All of your work must be your own...this includes your homework assignments. Copying during an exam or quiz, copying homework, copying disks, sharing printed or digital homework files, or any other type of plagiarism in any form is strictly prohibited in this class.

Tentative Schedule: The table shows a tentative schedule.

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|-------------------------------|---------|
| Introduction | Chap 1 |
| Prog with Numbers and Strings | Chap 2 |
| Decisions | Chap 3 |
| Loops | Chap 4 |
| Functions | Chap 5 |
| Lists | Chap 6 |
| Files and Exceptions | Chap 7 |
| Sets and Dictionaries | Chap 8 |
| Objects and Classes | Chap 9 |
| Inheritance | Chap 10 |
| Recursion | Chap 11 |
| Sorting and Searching | Chap 12 |

Lab projects and homework assignments will be posted to Canvas.

Special Needs: Any student that has a need based on a disability should contact me privately as soon as possible. Please contact Disability Resources and Services at 215-204-1280 in Ritter Annex to arrange for reasonable accommodations.