

Introduction to Computer Science (COSC 010) (Summer 2023)

PROFESSOR:

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OFFICE HOURS:

M-R :2.00 to 3.00 PM or by appointment

TEACHING ASSISTANTS:

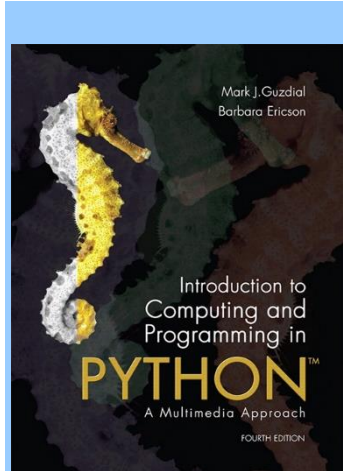
Name	Office Hours (EDT) Washington DC Time	Location	Email
XXX	XXXX	XXXXX	XXX

COURSE DESCRIPTION:

The class is designed to give hands on experience in using computers and computer programming.

Students will be introduced to digital logic, circuits, graphics, memory access (internal/external), networks, security, algorithms, representation of information in computers and programming. Students will write programs, and perform other laboratory exercises to understand these concepts. Python language will be used as the media by which these topics will be covered. Students will be required to write programs in Python.

TEXT:



Introduction to Computing and Programming in PYTHON
by Mark Guzdial & Barbara Ericson

Publisher: Pearson

ISBN-13: 9780134025544

TOPICS COVERED:

The whole text

COURSE REQUIREMENTS:

17 Home works: 70% of your final grade; (you will fail if you don't do your Home work)

ALL HOME WORKS MUST BE SUBMITTED BY THE DUE DATE

Mid Term: 10% of your grade

Final: 20% of your grade

IMPORTANT DATES:

Mid term1: June 22 (R)

Finals; July 6(R)

Course Schedule :

Date	Topic
6/05	Introduction to Computer Science and Media
6/06	Introduction to Programming
6/07	Modifying Pictures Using Loops
6/08	Modifying Pictures Using Loops
6/12	Modifying Pixels in Range
6/13	Modifying Pixels in Range
6/14	Picture Techniques with Selection and Combination
6/15	Picture Techniques with Selection and Combination
6/19	Modifying Sound Using Loops
6/20	Modifying Sound Using Loops
6/21	Modifying Sound Using Loops
6/22	Midterm
6/26	Modifying Samples in Range
6/27	Modifying Samples in Range
6/28	Modifying Samples in Range
6/29	Making Sounds by Combining Pieces
7/03	Making Sounds by Combining Pieces
7/05	Building Bigger Programs
7/08	Finals

Home Work	Given	Points	Problem	
1	6-6	20	hw1	sol1 sol2
2	6-7	20	hw2	sol1 sol2
3	6-8	20	hw3	sol1 sol2
4	6-09	20	hw4	sol1 sol2
5	6-13	20	hw5	sol1 sol2
6	6-14	20	hw6	sol1 sol2
7	6-15	20	hw7	sol1 sol2
8	6-16	20	hw8	sol1 sol2
9	6-20	20	hw9	sol1 sol2
10	6-21	20	hw10	sol1 sol2
11	6-22	20	hw11	sol1 sol2
12	6-27	20	hw12	sol
13	6-28	20	hw13	sol1
14	6-29	20	hw14	sol1 sol2
15	6-30	20	hw15	sol1 sol2
16	7-05	20	hw16	sol1 sol2
17	7-06	20	hw17	sol1 sol2

COURSE POLICY:

1. All *Home works* should be turned in at the end of the class. Keep the graded home works until the semester is over. Do NOT discard your home works.
2. Late Home work will NOT be accepted. If you cannot make it to class to turn in your home work it's your responsibility to turn it in prior to the due date.
3. Makeups and extensions will be given only for medical reasons.

COURSE ETHICS:

You can discuss the questions with your classmates, but do not copy the solutions.