Introduction to Computer Science (COSC 010) (Summer 2020)

PROFESSOR:

Mahendran Velauthapillai
Department of Computer Science   **Phone: 202-687-5936 (off**
331 St.Marys

OFFICE HOURS:

 M-R :2.00 to 3.00 PM or by appointment

TEACHING ASSISTANTS:

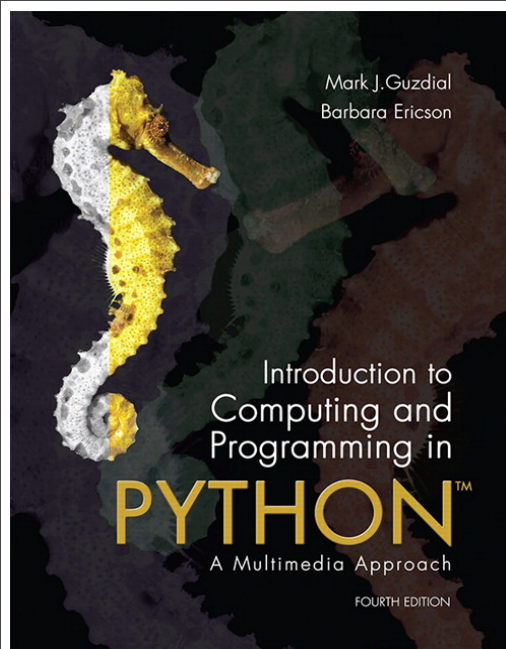| Name	Office Hours	Location	Email
xxx	7-8PM	STM G40	xxx

COURSE DESCRIPTION:

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

Students will be introduced to digital logic, circuits, graphics, memory access (internal/external), networks, security, algorithm 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:

18 Labs: 70% of your final grade; (you will fail if you don't show

ALL LABS MUST BE COMPELETED THE SAME DAY

Mid Term: 10% of your grade
Final: 20% of your grade

IMPORTANT DATES:

Mid term1: June 18 (R)
Finals; July 2(R)

Course Schedule:

Date	Topic
6/01	Introduction to Computer Science and Media
6/02	Introduction to Programming
6/03	Modifying Pictures Using Loops
6/04	Modifying Pictures Using Loops
6/08	Modifying Pixels in Range
6/09	Modifying Pixels in Range
6/10	Picture Techniques with Selection and Combination
6/11	Picture Techniques with Selection and Combination
6/15	Modifying Sound Using Loops
6/16	Modifying Sound Using Loops
6/17	Modifying Sound Using Loops
6/22	Madifying Samples in Range
6/23	Madifying Samples in Range
6/24	Madifying Samples in Range
6/25	Making Sounds by Combining Pieces
6/29	Making Sounds by Combining Pieces
6/30	Building Bigger Programs

7/01	Building Bigger Programs
7/02	Finals

Notes:

Couse notes will be available here the day before class.

Home Work	Given	Points	Problem
1	6-1	25	--
2	6-2	25	--
3	6-3	25	--
4	6-4	25	--
5	6-08	25	--
6	6-09	25	--
7	6-10	25	--
8	6-11	25	--

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9	6-15	25	--
10	6-16	25	--
11	6-17	25	In class practice Midterm
12	6-18	50	Midterm
13	6-22	25	--
14	6-23	25	--
15	6-24	25	--
16	6-25	25	--
17	6-29	25	--
18	6-30	25	--
19	7-01	100	practice Final
19	7-02	100	Final

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
  its 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 co solutions.