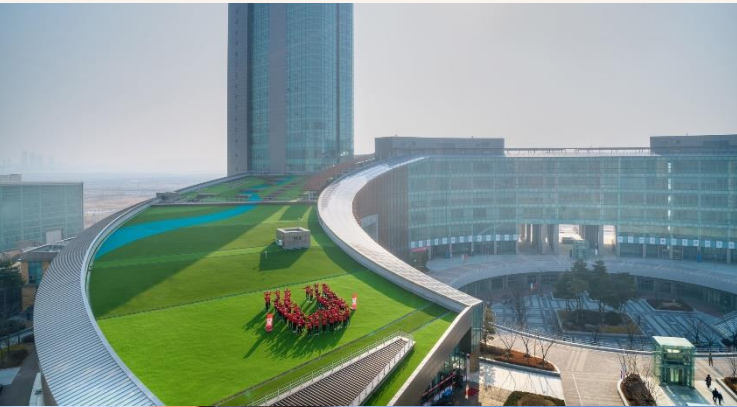




THE UNIVERSITY OF UTAH  
**ASIA CAMPUS**  
SOUTH KOREA

**Habtamu Minassie Aychew, PhD**  
**Department of Electrical and Computer Engineering**



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**Department of Electrical and Computer Engineering**  
**Spring 2022**

**Course Title: Programming for All 1**  
**Course Number: COMP 1010**

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**Instructor: Habtamu Minassie Aycheh, PhD**  
**Email: [habtamu.aycheh@utah.edu](mailto:habtamu.aycheh@utah.edu)**  
**Office : U759**

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## Course Objective

- This course is designed for non-CS major students who desire a practical course for gaining basic computer programming skills.
- The course provides a comprehensive study of how to approach programming problems and devise solutions using **python** programming language.
  - basic concepts, patterns, data structures and implementation of python programming techniques will be presented.



# Syllabus

Week	Day	Date	Topic
1	Tue	22/02/2022	Introduction
	Thu	24/02/2022	Setup python working environment
2	Tue	01/03/2022	Independence Movement Day
	Thu	03/03/2022	Variables, Statements, and Expressions
3	Tue	08/03/2022	Values and primary data types
	Thu	10/03/2022	Operators and Operands
4	Tue	15/03/2022	Program flow control- Conditions
	Thu	17/03/2022	Program flow control- iterations
5	Tue	22/03/2022	More on Iterations /loops
	Thu	24/03/2022	Algorithms
6	Tue	29/03/2022	Functions – Built in libraries/modules
	Thu	31/03/2022	Spring Recess
7	Tue	05/04/2022	Functions -User defined Functions
	Thu	07/04/2022	Strings and string manipulation
8	Tue	12/04/2022	Collection data types: Lists
	Thu	14/04/2022	Mid Term Exam

Week	Day	Date	Topic
9	Tue	19/04/2022	More on lists
	Thu	21/04/2022	Collection data types: Tuples
10	Tue	26/04/2022	Collection data types: dictionary
	Thu	28/04/2022	Collection data types: Sets
11	Tue	03/05/2022	The random Module
	Thu	05/05/2022	Children's Day
12	Tue	10/05/2022	Errors and Exceptions Handling
	Thu	12/05/2022	Unit testing
13	Tue	17/05/2022	Python Turtle
	Thu	19/05/2022	Object oriented programming (OOP) - class and object
14	Tue	24/05/2022	More on OOP -Inheritance
	Thu	26/05/2022	File I/O operations
15	Tue	31/05/2022	File I/O operations – CSV files
	Thu	02/06/2022	File I/O operations – image files
16	Tue	07/06/2022	Final Exam

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# Class Logistics

- Class Time
  - Tuesday & Thursday: 8:00am – 8:50am
  - Location: U513(Lab)
- Office Hour
  - By appointment
- Course materials
  - Canvas: <https://utah.instructure.com>
    - Please check canvas
      - for lecture slides before class
      - quizzes, assignments, etc..

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# Evaluation

- Class participation: 10%
- Quiz : 10%
- Programming Assignments(PAs) : 30%
- Mid test : 25%
- Final test: 25%

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# Academic integrity

- You have to be honest in all your academic course work
- Violation will be recorded in your transcript
  - <https://regulations.utah.edu/academics/6-400.php>
- Submit assignments by the deadline
- Attend classes to successfully complete the course.

# Books

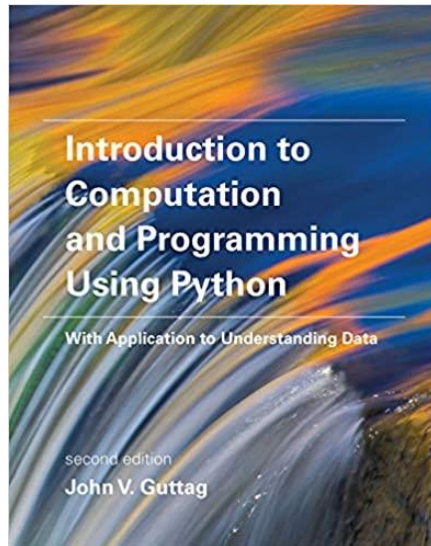
1. **Textbook:** Foundations of Python Programming

- ❑ Interactive textbook: <https://runestone.academy/ns/books/published/fopp/index.html>

## Reference

2. Introduction to Computation and Programming Using Python, second edition

- ❑ [https://www.amazon.com/Introduction-Computation-Programming-Using-Python/dp/0262529629/ref=sr\\_1\\_3?keywords=Introduction+to+Computation+and+Programming+Using+Python.&qid=1564178404&s=gateway&sr=8-3](https://www.amazon.com/Introduction-Computation-Programming-Using-Python/dp/0262529629/ref=sr_1_3?keywords=Introduction+to+Computation+and+Programming+Using+Python.&qid=1564178404&s=gateway&sr=8-3)



Programming requires “practice”  
not just reading!



**Good luck and  
have a great  
semester!**

