

Introduction to Programming in Python

Course Mechanics

Outline

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- 8 Software
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Website

<https://www.swamiiyer.net/cs110>

What's on the site?

- Announcements (landing page)
- Course Info
- Calendar
- Lecture Material
- Assignments
- Resources

Goal

Goal

Proficiency in the design and implementation of Python programs of significant size and complexity

Prerequisites

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Math 140 (Calculus I) credits or placement *or*

Math 130 (Precalculus) with a B or higher in the previous semester *or*

Permission of the instructor

Course Staff

Instructor

- Name: Swami Iyer (Senior Lecturer I, Computer Science Department)
- Academic Interests: evolutionary dynamics on complex networks, coding, pedagogy
- Contact Information
 - Office: M-3-201-14
 - Email: siyer@cs.umb.edu (please start subject line with [CS110])
- Office Hours
 - Tue Thu 10:00 AM – 12:00 PM (in-person)
 - Wed 10:00 AM – 12:00 PM (remote)

Teaching Assistants (TAs): Haowen Guan, JieHyun (Jenna) Kim, Rishank Singh

Course Assistants (CAs): Avraham Felzenstein, Rafaela Lopes, Serin Kitory

Supplemental Instruction (SI) Leader: Azealia Khaled

Sessions

Class

Section	When	Where
1 -- 4, 8, 9	Tue Thu 12:30 PM -- 1:45 PM	W-1-0088 (Snowden Auditorium)

Discussion

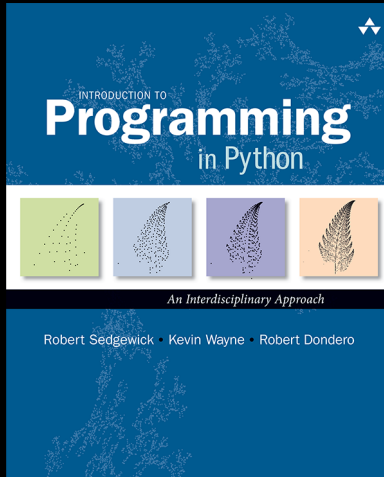
Section	When	Where
1	Tue 11:00 AM -- 12:15 PM	W-1-0044
2	Thu 11:00 AM -- 12:15 PM	M-2-0211
3	Tue 2:00 PM -- 3:15 PM	W-1-0055
4	Thu 2:00 PM -- 3:15 PM	W-1-0044
8	Tue 9:30 AM -- 10:45 AM	H-L-3507
9	Thu 9:30 AM -- 10:45 AM	M-2-0214

Supplemental Instruction (SI): details to be determined

Tutoring: available through Subject Tutoring Program

Recommended Text

Recommended Text



Grading Scheme

Grading Scheme

Assessment	% of Final Grade
Programming Assignments (6)	30
Exams (2)	60
Participation	10

Programming assignments: biweekly, on interesting computational problems

Exams: programming (Mar 25/27 and May 6/8) and written (Apr 1 and May 13)

Participation: best 10 in-class quizzes (7%) and discussion attendance (3%)

Up to 2% extra points for attending the SI sessions

Up to 0.01x% extra points if x% of the class completes the end-of-semester course evaluation

If overall score is within 0.5% of a higher grade, it will be elevated to that grade

Software

Piazza

Gradescope

Programming environment

Zoom

Policies

Classroom

Piazza

Makeup Exam

Regrade Request

Collaboration

Accommodations for Students with Disabilities

Campus Closure

Immediate Action Items

Immediate Action Items

Sign up for Piazza

Sign up for Gradescope

Setup the programming environment

Fill out the questionnaire available on Gradescope

Complete the SI poll

Sign up for CS account

Topics Covered

Topics Covered

Chapter 1: Building a Computer

- Representing Information
- Logic Circuits
- Von Neumann Architecture

Topics Covered

Topics Covered

Chapter 2: Imperative Programming

- Your First Programs
- Basic Data Types
- Control Flow
- Collection Data Types
- Input and Output

Topics Covered

Topics Covered

Chapter 3: Procedural Programming

- Defining Functions
- Libraries and Applications
- Recursion

Topics Covered

Topics Covered

Chapter 4: Object-oriented Programming

- Using Data Types
- Defining Data Types
- Design Principles

Topics Covered

Topics Covered

Chapter 5: Algorithms and Data Structures

- Analysis of Algorithms
- Searching and Sorting
- Basic Data Structures