

MIS 6382.001 Course Syllabus

Course Information

Course Number MIS 6382
Course Title Object Oriented Programming in Python
Term Fall 2022
Meeting Time Friday 4 - 6:45

Professor Contact Information

Professor Rajin Koonjbearry
Office Phone 504-944-9927
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Office Location JSOM 3.604
Office Hours Friday 7:00p to 8:00p
Other Information Please use your UTD email address to contact the professor.

TA Information

TA Puneeth Gummadam
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Office Location JSOM 3.604
Office Hours TBD
Other Information Please use your UTD email address to contact the TA.

Course Modality and Expectations

Instructional Mode	This course will be taught in an <i>in-person mode</i> .
Course Location	MS Teams for Remote/Virtual mode (eLearning Blackboard as a backup) and JSOM 12.218 for in-person mode
Asynchronous Learning Guidelines	Asynchronous learning option is available for every student who cannot attend live classes during the Remote/Virtual mode. Lectures will be recorded and uploaded into the course group in MS Stream. However, the due dates for homeworks are the same. Asynchronous learning option is NOT available during the in-person mode.
Expectations	The very basic expectations for students are three-fold regardless of the learning mode: (1) watch/attend lectures and play with in-class exercises; (2) contribute to class discussions in realtime and/or teaching materials asynchronously; (3) complete homeworks, exams, projects on time.

COVID-19 Guidelines and Resources

The information contained in the following link lists the University's COVID-19 resources for students and instructors of record.

Please see <http://go.utdallas.edu/syllabus-policies>.

Class Participation

Regular class participation is expected and required regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It includes engaging in in-class programming activities or after-class discussions that solicit your feedback on homework assignments, readings, or materials covered in the lectures. Evidence on class participation should be provided by the students and verified by the professor (more details below). Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Recordings

The instructor will record meetings of this course only in the Remote/Virtual mode. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student Access Ability has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student Access Ability accommodation. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Materials

The Instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course. However, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student Access Ability accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Course Description

This course discusses software development concepts and the development of object-oriented applications. The Python programming language will be used in order to give a more practical approach to instruction. Topics covered include basic programming concepts, problem solving techniques, algorithm specifications, debugging, and testing of computer programs. Students need to solve small programming problems and write their solutions as high-quality programs in Python.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Because this is an introductory course, there are no prerequisites in terms of prior course-work. However, it is expected that student have basic operational experience with computers and the ability to learn advanced programming concepts quickly. This is a course which ramps up in

difficulty fairly quickly so students, particularly those with no prior programming experience, should be prepared to put in a lot of effort and time into this course.

Student Learning Objectives/Outcomes

The objective of this course is to introduce students to the basic principles of object-oriented systems using Python as the medium. Topics the students will learn by the end of the semester are:

- Learn basic Python programming concepts and syntax
- Learn object-oriented principles
- Be able to interpret and debug programs written in Python
- Be able to write programs of moderate complexity in Python

Required Textbooks and Materials

Required Textbooks

None

Required Materials

The instructor will publish required materials on eLearning.

Suggested Course Materials

Python for Everybody (<https://www.py4e.com/book>)

A Byte of Python (<https://python.swaroopch.com/>)

Programming Python: Powerful Object-Oriented Programming 4th Edition

Technical Requirements

- A laptop or desk computer with reasonable processing power. You need to work on your laptop or desk computer in each synchronous meeting.
- Install Python via Anaconda (<https://www.anaconda.com/distribution/>). Be sure to select Python version 3.7 (or higher)
- Homework Zero (worth 0% of the grade) is just to test the software installation and to ensure that you are able to correctly execute code. You must complete and submit this assignment by the due date.

What to Expect during Meeting Time?

Typical class meeting might look like the following, although it will have a certain amount of variation:

(Subject to change)

- 5 minutes for administrative items and answering questions
- 15 minutes of code debugging exercise
- 30 minutes of lecture covering basic concepts
- 70 minutes of programming demo
- 30 minutes of in-class activity
- 15 minutes of a half-time break

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the [eLearning](#) website.

Please see the course access and navigation section of the [Getting Started with eLearning](#) webpage for more information.

To become familiar with the eLearning tool, please see the [Student eLearning Tutorials](#) webpage. UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The [eLearning Support Center](#) includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the [Student eLearning Tutorials](#) webpage for video demonstrations on eLearning tools.

Student emails will be answered within 48 hours under normal circumstances.

Distance Learning Student Resources (does not apply)

Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student Access Ability, and many others. Please see the [eLearning Current Students](#) webpage for more information.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online [eLearning Help Desk](#). The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Academic Calendar

Date	Topic	Assignment	Due Date
8/26/2022	Introduction to Python	Homework 0	9/1/2022
9/2/2022	Variables and Expressions	Homework 1	9/8/2022
9/9/2022	Loops and Functions	Homework 2	9/15/2022
9/16/2022	Strings		
9/23/2022	Lists		
9/30/2022	Exam 1		
10/7/2022	Dictionaries, Tuples, and Sets	Homework 3	10/6/2022
10/14/2022	Exceptions		
10/21/2022	Introduction to Classes and Objects		
10/28/2022	Classes and Objects	Homework 4	10/27/2022
11/4/2022	OOP		
11/11/2022	OOP		
11/18/2022	Exam 2		
12/2/2022	Files/Visualization	Homework 5	12/1/2022
12/9/2022	Course Review	Final Project	12/9/2022

Notes: All home works are due by 11:55PM central time (CT).

Grading Policy

Assignment 1	100 marks	5%
Assignment 2	100 marks	5%
Assignment 3	100 marks	5%
Assignment 4	100 marks	5%
Assignment 5	100 marks	5%
Class participation	100 marks	15%
Midterm 1	100 marks	20%
Midterm 2	100 marks	20%
Final project	100 marks	20%
Total		100%

Grade Scale

Scaled Score	Letter Equivalent
97 – 100	A+
94 – 97	A
90 – 94	A-
87 – 90	B+
84 – 87	B
80 – 84	B-
77 – 80	C+
74 – 77	C
70 – 74	C-
67 – 70	D+
64 – 67	D
60 – 64	D-
< 60	F

Assessing Grades

Students can check their grades by clicking “My Grades” on the course menu after the grade for each assessment task is released.

Course Evaluation and Policies*Class Assignments*

There will be five homework assignments and collectively they will count towards 25% of the final grade. Each assignment will be worth 5%. For each assignment you will submit one file containing the responses to all homework questions. All five assignments are individual assignments.

Late Work

Late work might be accepted in this class. However, it must be late for reasons beyond the student’s control such as death in the immediate family or an emergency medical procedure. Late

work, if accepted, will be assessed a penalty—10 points for work that is up to 24 hours late and 20 points for work that is more than 24 hours late. If there is any question about what ought to be allowed, we will send it over to the Dean of Students for further investigation.

Exams

There will be two exams for the course scheduled in the regular class time and each exam will be worth 20% of the course grade. Exam 1 and 2 are closed-book exams in which you cannot solicit help from other sources/people and you only have a limited time to complete them. The final exam is in the format of a project which you will have two weeks to work on.

Make-up exams

Make up exams will be allowed ONLY with prior permission from the instructor. Exceptions will be identified by the instructor when appropriate.

Class Participation Score

All students are required to attend classes. In-class activities will be used to calculate attendance score. Details will be discussed during the first meeting.

Accommodations for Disabilities:

If you have an accommodation form, please present it during the first two weeks of class. No retroactive accommodations will be made. If you are an official note-taker, you must present documentation of this the first two weeks of class if any accommodation will be requested.

Class Break

We will have a break during each meeting, at the approximate half-way mark. It's a good time to check your messages, use the restroom, or have a quick snack.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students.

Please go to [Academic Support Resources](#) webpage for these policies.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to [UT Dallas Syllabus Policies](#) webpage for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor. If you have questions about this syllabus, ask. Never assume.