

## Course Syllabus – Spring 2024



**Course** MIS 6382.502.24S  
**Course Title** Object Oriented Programming in Python  
**Professor** Rabih Neouchi  
**Term** Spring 2024  
**Meetings** Tuesdays 7:00 – 9:45pm CST, JSOM 12.222

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### Professor's Contact Information

**Email Address** [Rabih.Neouchi@utdallas.edu](mailto:Rabih.Neouchi@utdallas.edu)  
**Office Location** JSOM 14.329  
**TA** Megha Sai Sree Pinnaka  
**Email Address** [mxp220072@utdallas.edu](mailto:mxp220072@utdallas.edu)  
**Office Hours** 2:00 – 3:00pm CST, Mondays and Wednesdays via MS Teams  
**Other Information** **Please use your UTD email address to contact either the TA or the professor, and state the course and section number**

### Course Modality & Expectations

<b>Instructional Mode</b>	<ul style="list-style-type: none"><li>• Attendance must be <b>in person (face-to-face)</b>. Physical and regular classroom attendance is required and graded.</li><li>• Attendance will be taken every class.</li><li>• Class material will be released prior to every class.</li><li>• <b>Lectures will not be recorded.</b></li></ul>
<b>Course Platform</b>	eLearning Blackboard.
<b>Asynchronous Learning</b>	<ul style="list-style-type: none"><li>• Asynchronous learning is not permitted.</li><li>• All quizzes and exams must be taken with the rest of the class. <b>No make-up exams. No exceptions.</b></li><li>• <b>Group work:</b> You are responsible to join a group to work on a final project, to meet with them, and to deliver it on time. <b>You will be held accountable at an individual level.</b></li></ul>
<b>Expectations</b>	<ul style="list-style-type: none"><li>• Physical, regular, and punctual class attendance is mandatory.</li><li>• <b>Stay quiet and avoid personal conversations during lectures.</b></li><li>• <b>Go over released material. Come prepared to the class.</b></li><li>• <b>Professor will not be able to go over every example or snippet of code in class. It is the student's utmost responsibility to cover all aspects of the released material.</b></li><li>• <b>Failure to run the code and to come prepared will result in missing main concepts behind the topics of the course.</b></li><li>• Attend lectures, play with in-class exercises, and discussion board posts.</li><li>• Complete midterm, final project, and final exam on time.</li><li>• <b>You must sign-up (register) for all exams by Friday 01/26.</b></li><li>• <b>You must sign and upload the 'Academic Integrity Pledge' (on course homepage).</b></li></ul>

<b>Break</b>	The professor reserves the right to give a 10-minute break during each meeting, at the approximate half-way mark (depending on material progress). It's a good time to check your messages, use the restroom, or have a quick snack.
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### General Course Information

<b>Pre-requisites, Co-requisites, &amp; other restrictions</b>	Since 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.
<b>Course Description</b>	In this course students will be introduced to basic concepts of software development and the building of Object-Oriented applications. The Python programming language will be used in order to give a more practical approach to instruction. Topics covered include problem solving techniques, algorithm specifications, debugging, and testing of computer programs.
<b>Learning Outcomes</b>	The objective of the 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: <ol style="list-style-type: none"> <li>1. Learn basic Python programming concepts and syntax</li> <li>2. Learn basic object-oriented principles</li> <li>3. Be able to interpret and understand programs written in Python</li> <li>4. Be able to write programs of moderate complexity in Python</li> </ol>
<b>Suggested Texts, Readings, &amp; Materials</b>	<ul style="list-style-type: none"> <li>• Python for Everybody (PFE) (<a href="https://www.py4e.com/book">https://www.py4e.com/book</a>)</li> <li>• A Byte of Python (<a href="https://python.swaroopch.com">https://python.swaroopch.com</a>)</li> <li>• Programming Python: Powerful Object-Oriented Programming 4th Edition</li> </ul>
<b>Required Software &amp; Hardware</b>	<ul style="list-style-type: none"> <li>• A computer (laptop or desktop) with reasonable processing power.</li> <li>• <b>Google Colab:</b> (need to have a google account) <ul style="list-style-type: none"> <li>◦ <a href="https://colab.research.google.com/">https://colab.research.google.com/</a></li> <li>◦ Used for both R and Python programming</li> </ul> </li> <li>• <b>OR Alternative Software:</b> <ul style="list-style-type: none"> <li>◦ Pycharm IDE (Python): <a href="https://www.jetbrains.com/pycharm/">https://www.jetbrains.com/pycharm/</a></li> <li>◦ Spyder IDE (Python): <a href="https://www.spyder-ide.org/">https://www.spyder-ide.org/</a></li> <li>◦ JupyterLab (Python): <a href="https://jupyter.org/">https://jupyter.org/</a></li> <li>◦ Install Python and use Jupyter Notebook via Anaconda (<a href="https://www.anaconda.com/download/">https://www.anaconda.com/download/</a>). Be sure to select Python version 3.9 (or higher)</li> </ul> </li> <li>• You will also need a text editor like Notepad++</li> </ul>

## Assignments & Academic Calendar (Tentative)

Date	Topic	Book Chapters	Assignment	Due Date
01/16/2024	Introduction to Python Variables and Expressions	PFE – 2		
01/23/2024	Branching Loops	PFE – 3 PFE – 5		
01/30/2024	Functions	PFE – 4		
02/06/2024	Strings	PFE – 6		
02/13/2024	Lists	PFE – 8		
02/20/2024	Dictionaries Tuples	PFE – 9 PFE – 10		
02/27/2024	Files	PFE – 7		
03/05/2024	Exceptions Data Visualization – Part 1	PFE – 3, Slides Slides	Final Project	04/30/2024
03/05/2024 – 03/08/2024		Midterm (Online, UTD Testing Center Hours*) Topics: Variables, Branching, Loops, Functions, Strings, Lists		
03/12/2024	No Class: Spring Break			
03/19/2024	Classes, OOP Data Visualization – Part 2	PFE – 14, Slides Slides		
03/26/2024	Classes, OOP Data Visualization – Part 3	PFE – 14, Slides Slides		
04/02/2024	Classes, OOP Data Visualization – Part 4	PFE – 14, Slides Slides		
04/09/2024	Sets Data Visualization – Part 5	PFE – 10 Slides		
04/16/2024	Review	Slides		
04/23/2024	Review			
04/30/2024	Final Project Presentation			
05/07/2024 – 05/10/2024		Final (Online, UTD Testing Center Hours*) All Topics Inclusive		

**\*\* The final project is due at 4:00pm central time (CST) on the specified date.**

**\*\* All exams must be taken at the UTD Testing Center. An announcement will be made on the course homepage on how to register for a seat.**

**\*\* UTD Testing Center Hours: <https://ets.utdallas.edu/testing-center>**

## Course Policies

<b>Class Materials</b>	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 AccessAbility accommodation. Failure to comply with these University requirements is a violation of the <a href="#">Student Code of Conduct</a> .																																																						
<b>Classroom Conduct Requirements Related to Public Health Measures</b>	UT Dallas strongly encourages all Comets to get vaccinated and wear face coverings as recommended by the CDC. Check the <a href="#">Comets United: Latest Updates webpage</a> for the latest guidance on the University's public health measures. Comets are expected to carry out <a href="#">Student Safety</a> protocols in adherence to the Comet Commitment. Unvaccinated Comets will be expected to complete the <a href="#">Required Daily Health Screening</a> . Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the <a href="#">Student Code of Conduct – UTSP5003</a> .																																																						
<b>Grading (credit) Criteria</b>	<div><b>Weights</b></div> <table><tr><td>Midterm Exam</td><td>35 marks</td><td>35%</td></tr><tr><td>Final Project</td><td>25 marks</td><td>25%</td></tr><tr><td>Final Exam</td><td>35 marks</td><td>35%</td></tr><tr><td>Class Participation - Discussion Board - Physical Attendance</td><td>05 marks</td><td>05%</td></tr><tr><td></td><td>- &lt; 10 attendances</td><td>01%</td></tr><tr><td></td><td>- 10 attendances</td><td>04%</td></tr><tr><td></td><td>- 11 attendances</td><td>0%</td></tr><tr><td></td><td>- 12 attendances</td><td>1.5%</td></tr><tr><td></td><td>- 13 attendances</td><td>2%</td></tr><tr><td></td><td>- 14 attendances</td><td>2.5%</td></tr><tr><td></td><td>- 15 attendances</td><td>3%</td></tr><tr><td></td><td>- 16 attendances</td><td>3.5%</td></tr><tr><td></td><td>- 17 attendances</td><td>4%</td></tr><tr><td><b>Total</b></td><td>100 marks</td><td>100%</td></tr></table> <div><b>Grading Scale</b></div> <table><tr><td>Scaled Score</td><td>Letter Equivalent</td></tr><tr><td>Top 25%</td><td>A</td></tr><tr><td>Next 25%</td><td>A-</td></tr><tr><td>Next 25%</td><td>B+</td></tr><tr><td>Next 25%</td><td>B or below</td></tr></table> <p><b>** Grade weights are subject to change at the discretion of the professor.</b></p>			Midterm Exam	35 marks	35%	Final Project	25 marks	25%	Final Exam	35 marks	35%	Class Participation - Discussion Board - Physical Attendance	05 marks	05%		- < 10 attendances	01%		- 10 attendances	04%		- 11 attendances	0%		- 12 attendances	1.5%		- 13 attendances	2%		- 14 attendances	2.5%		- 15 attendances	3%		- 16 attendances	3.5%		- 17 attendances	4%	<b>Total</b>	100 marks	100%	Scaled Score	Letter Equivalent	Top 25%	A	Next 25%	A-	Next 25%	B+	Next 25%	B or below
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<b>Class Attendance</b>	<ul style="list-style-type: none"><li>Regular and punctual physical class attendance is expected (and graded). Attendance will be taken every class. Students who fail to attend class regularly are inviting scholastic difficulty.</li><li><b>Refer to 'Grading Criteria' above for a breakdown of class participation grade per number of lectures attended throughout the course.</b></li></ul>																																																						

<b>Class Participation</b>	<p>Regular and punctual class participation is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. <b>5%</b> of the final grade is assigned to class participation. <b>This includes physical class attendance, and participation in the discussion board.</b></p> <p>Class participation is documented by faculty. 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 <a href="#">Student Code of Conduct</a>.</p>
<b>Course Evaluation</b>	<p>Course evaluation at the end of the semester is <b>optional</b>. Submitting a course evaluation will result in a <b>1% bonus</b> of the total final grade.</p>
<b>Make-up Exams</b>	<ul style="list-style-type: none"> <li>• There are no make-up exams, no exceptions.</li> <li>• In case of medical emergency, a medical report (a doctor's note or relevant medical documentation) is required.</li> <li>• Traveling for family-related matters does not constitute a valid reason for requesting a make-up exam session.</li> <li>• Requests made without a valid or medical reason will result in a <b>ZERO</b>.</li> <li>• <b>Absolutely no make-up for the final exam.</b></li> </ul>
<b>Late Work</b>	<ul style="list-style-type: none"> <li>• Only for reasons beyond the student's control such as death in the immediate family or an emergency medical procedure.</li> <li>• Subject to <b>10% penalty</b> for work that is up to 24 hours late.</li> <li>• Subject to <b>20% penalty</b> for work that is 24 to 48 hours late.</li> <li>• <b>ZERO credit</b> for work that is more than 48 hours late.</li> </ul>
<b>Grading Policy</b>	<p>Adherence to instructions will be considered an important part of the grade. <b>The professor's assessment of the grades is final.</b></p>
<b>Accessing Grades</b>	<p>Students can check their grades by clicking "My Grades" on the course menu after the grade for each assessment task is released.</p>
<b>Grading Structure</b>	<ul style="list-style-type: none"> <li>• <b>Refer to 'Grading Criteria' above for a breakdown of grading structure and weight per deliverable.</b></li> <li>• <b>All exams must be taken at the UTD Testing Center.</b> An announcement will be made on the course homepage on how to register for a seat.</li> <li>• <b>You must submit original, independent intellectual work for all academic problems and final project.</b></li> </ul>
<b>Classroom Citizenship</b>	<ul style="list-style-type: none"> <li>• <b>Stay quiet and avoid personal conversations during lectures.</b></li> <li>• Cell phone use is not allowed during class or exam.</li> <li>• eLearning will be used for class content.</li> <li>• Slides and other class materials will be posted prior to every class.</li> <li>• Class announcements (news, notes or other issues) will be posted to eLearning and the discussion board.</li> <li>• <b>It is the students' utmost responsibility to regularly check the announcements</b> (announcements are typically automatically forwarded to their email accounts).</li> </ul>
<b>Accommodations for Disabilities</b>	<p>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.</p>

<b>Comet Creed</b>	<p><i>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:</i></p> <p><i>"As a Comet, I pledge honesty, integrity, and service in all that I do."</i></p>
<b>Academic Integrity</b>	<p>Academic dishonesty involves the abuse and misuse of information or people to gain an undeserved academic advantage or evaluation. Common forms include:</p> <ul style="list-style-type: none"> <li>• <b>Cheating</b> – using deception in the taking of tests or the preparation of written work, using unauthorized materials, copying another person's work with or without consent, or assisting another in such activities.</li> <li>• <b>Lying</b> – falsifying, fabricating, or forging information in either written, spoken, or video presentations.</li> <li>• <b>Plagiarism</b> – using the published writings, data, interpretations, or ideas of another without proper documentation. Plagiarism includes copying and pasting material from the internet into assignments without properly citing the source of the material.</li> <li>• <b>Sharing exam questions is not allowed. Any academic dishonesty incident will be referred to the dean of students for appropriate course of action.</b></li> </ul> <p>Episodes of academic dishonesty are reported to the Vice President for Academic Affairs. The potential penalty for academic dishonesty includes a failing grade on a particular assignment, a failing grade for the entire course, or charges against the student with the appropriate disciplinary body.</p>
<b>Academic Support Resources</b>	<p><i>The information contained in the following link lists the University's academic support resources for all students.</i></p> <p>Please go to <a href="http://go.utdallas.edu/academic-support-resources">http://go.utdallas.edu/academic-support-resources</a>.</p>
<b>UT Dallas Syllabus Policies and Procedures</b>	<p><i>The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the sections regarding the <a href="#">credit/no credit</a> grading option and withdrawal from class.</i></p> <p>Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</p>

*The descriptions and timelines contained in this syllabus are subject to change at the discretion of the professor.*