MATH 4332: Scientific Computing using Python
Syllabus-Spring 2023

Class Information:			
Section	Course Meeting Times	ClassRoom	Instructor
MATH 4332.501	TR 5:30pm–6:45pm	FO 2.404	Dr. Anani Komla Adabrah

Instructor Information:

Instructor : Anani Adabrah
Email: AnaniKomla.Adabrah@utdallas.edu
Office : FN 3.118B
Phone: (972) 883 3959
Office Hours : TR: 2:00pm–3:00pm and by appointment

Class Attendance: The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected regardless of modality. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. These attendance requirements will not be used as part of grading. In-person participation records may be used to assist the University or local public health authorities in performing COVID-19 occurrence monitoring. Please note – in-person attendance requires 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

Prerequisite: (MATH 2414 or MATH 2419 or equivalent) with a grade of C- or higher.

Co-requisite: MATH 2333 or MATH 2418 or equivalent.

Course Description: Scientific Computing using Python (3 semester credit hours) Topics covered include an introduction to Python for mathematical and scientific problem solving. Assignments include data analysis and other applications.

Textbook and Materials:

- **Required Textbook:** None.
- **Suggested Textbook:** Brian Heinold, A Practical Introduction to Python Programming. Eric Matthes, Python Crash Course, 2nd Edition.

eLearning:

You must regularly check MATH 4332.501 page of eLearning:

`https://elearning.utdallas.edu`

Weekly Homework Assignments, grades, and important announcements will be posted on eLearning.

LATE/MISSED COURSEWORK

- There is no make-up for late or missed assignments or exams, unless extreme circumstances with proper documentation accepted by the instructor.
- In case of extreme circumstances, one is expected to report to the instructor **before** the deadline of the coursework and resolve the problem within **one** week after the deadline.

Grading Criteria And Scheme

- – Homework: 30%
  – Exam 1: 20%
  – Exam 2: 20%
  – Exam 3: 30% (Cumulative)
- All letter grades will be assigned in accordance with the table of numeric to alphabetic conversions given below.

[90; 93) A-, [93; 97) A, [97; 100^{+}] A+
[80; 83) B-, [83; 87) B, [87; 90) B+
[70; 73) C-, [73; 77) C, [77; 80) C+
[60; 63) D-, [63; 67) D, [67; 70) D+
[0, 60) F.

Important Dates

- **Classes begin:** Tuesday, January 17, 2023.
- **Wednesday, February 01, 2023:** Last Day to Drop a class without a "W"
- **Exam I**: Tuesday, February 21st. (**In our classroom**)
- **Exam II**: Tuesday, April 4th (**In our classroom**).
- **Exam III**: Thursday, May 4th (**In our classroom**).
- **Last Day of Classes** : Thursday, May 4th, 2023.
- **Spring break** : Monday, March 13 – Sunday, March 19

UT Dallas Syllabus Policies and Procedures:

The information at

`http://go.utdallas.edu/syllabus-policies`

constitutes university's syllabus policies and procedures segment of this syllabus.

Topics Covered:

Getting Started, For loops, Numbers, If statements, Miscellaneous Topics I, Strings, Lists, More with Lists, While loops, Miscellaneous Topics II, Dictionaries, Text Files, Functions, Miscellaneous topics III, Math, Working with functions, Regular expressions, Exceptions.

Note: The polices and timeline on this syllabus are subject to change at the discretion of the instructor.