

MATH 1325 APPLIED CALCULUS I
Syllabus-Fall 2024

| Class Information | | | |
|-------------------|----------------------|-----------|------------------|
| Section | Meeting Times | Location | Instructor |
| MATH 1325.001 | TR 8:30am - 9:45am | SCI 3.230 | Samanmalee Foley |
| MATH 1325.002 | TR 2:30pm - 3:45pm | SCI 2.230 | Jigar Patel |
| MATH 1325.003 | TR 2:30pm - 3:45pm | SCI 2.210 | Derege Mussa |
| MATH 1325.004 | TR 10:00am - 11:15am | SCI 2.225 | Samanmalee Foley |
| MATH 1325.005 | TR 4:00pm - 5:15pm | SCI 2.215 | Derege Mussa |
| MATH 1325.006 | TR 1:00pm - 2:15pm | SCI 3.250 | Jigar Patel |
| MATH 1325.007 | TR 11:30am - 12:45pm | SCI 2.230 | Joselle Kehoe |
| MATH 1325.008 | TR 1:00pm - 2:15pm | SCI 3.230 | Saikat Biswas |
| MATH 1325.009 | TR 1:00pm - 2:15pm | SCI 2.225 | Neha Makhijani |
| MATH 1325.010 | TR 2:30pm - 3:45pm | FO 1.202 | Neha Makhijani |
| MATH 1325.011 | TR 2:30pm - 3:45pm | SCI 3.250 | Raja Khoury |
| MATH 1325.012 | TR 4:00pm - 5:15pm | SCI 3.250 | Raja Khoury |
| MATH 1325.014 | TR 11:30am - 12:45pm | SCI 3.250 | Sakshi Malhotra |
| MATH 1325.015 | TR 11:30am - 12:45pm | SCI 2.235 | Derege Mussa |
| MATH 1325.016 | TR 4:00pm - 5:15pm | SCI 2.230 | Sakshi Malhotra |
| MATH 1325.501 | TR 5:30pm - 6:45pm | SCI 2.210 | Saikat Biswas |
| MATH 1325.502 | TR 5:30pm - 6:45pm | SCI 3.230 | Derege Mussa |
| MATH 1325.701 | M 8:30pm - 10:30pm | TBA | |

| Instructor Information | | | | |
|------------------------|--------------|-------------|---------------------|---|
| Instructor | Phone | Office | E-mail@utdallas.edu | Office Hours |
| Saikat Biswas | 972-883-6531 | FO 2.104 | Saikat.Biswas | TR:9:30am-10:30am, & by appointment. |
| Samanmalee Foley | 972-883-6318 | FO 2.604(A) | Samanmalee | TR:11:30am-12:30pm, & by appointment |
| Joselle Kehoe | 972-883-6436 | FO 2.108 | Joselle.Kehoe | TR:10:00am-11:00am, & by appointment |
| Raja Khoury | 972-883-xxxx | FA 2.106 | Raja.Khoury | TR:1:00pm-2:00pm, & by appointment |
| Neha Makhijani | 972-883-6419 | FO 2.410(G) | Neha.Makhijani | TR:11:30am-12:30pm, & by appointment |
| Sakshi Malhotra | 972-883-7208 | FO 2.610(J) | Sakshi.Malhotra | TR:1:00pm-2:00pm, & by appointment |
| Derege Mussa | 972-883-6562 | FO 2.410(C) | Derege.Mussa | TR:1:00pm-2:00pm, & by appointment |
| Jigar Patel | 972-883-3965 | FO 2.410(E) | Jigarkumar.patel | TR:10:00am-11:15am, & by appointment |

| General Course Information | |
|----------------------------|---|
| Pre-requisite | C- or better in MATH 1314 or an equivalent course. |
| Co-requisite | Students must be enrolled in the MATH 1325 exam section, which is section 701. Section 701 only meets on the exam weeks, not every week. |
| Course Description | Course topics include algebra review, functions and graphs, differentiation, maxima and minima, exponential and logarithmic functions, and integration. |
| Recommended Texts | <i>Calculus with Applications 11th Edition</i> , by Lial, Greenwell and Ritchey. |
| Required Supplies | 1. A non-programmable, non graphic scientific calculator may be used on quizzes and exams. Calculators which can compute derivatives and/or integrals (such as some Casio brand calculators) are strictly prohibited. |
| eLearning | 1. You must check the eLearning course page regularly. 2. Course assignments and the gradebook will be posted through eLearning. https://elearning.utdallas.edu |
| UTD E-mail | Your official UTD E-mail address will be used to send you important course information. <i>You must check your official UTD E-mail address regularly and make sure your inbox is not full.</i> |
| Additional Resources | The Student Success Center offers a variety of services for Math 1325 students. They offer: Peer-Led Team Learning (PLTL) sessions (Students who need additional practice are encouraged to join PLTL sessions. The seats are limited and they are on a first come first serve basis.), Supplemental Instructions (SI) sessions, weekly reviews, exam reviews, and walk-in tutoring (Peer Tutoring-Math). Check their website for additional information. http://www.utdallas.edu/studentsuccess/help-with-courses/ |

| Tentative Course Outline | | | | |
|--------------------------|--------|---------------------------------------|-------------------|---------------------|
| Week | Monday | Sections and Days Off | PHW Due (TUESDAY) | Quiz Due (THURSDAY) |
| 1 | 8/19 | R.1, R.2, R.3 | | |
| 2 | 8/26 | R.4, 2.1, 2.3 | PHW1 | Q1 |
| 3 | 9/02 | <i>Labor Day</i> , R.6, R.7, 2.4, 2.5 | PHW2 | Q2 |
| 4 | 9/09 | 3.1, 3.2 | PHW3 | Q3 |
| 5 | 9/16 | 3.3, 3.4, <i>Review</i> | PHW4 | Q4 |
| 6 | 9/23 | 4.1, 4.2, 4.3 | | |
| 7 | 9/30 | 4.4, 4.5, R.5 | PHW5 | Q5 |
| 8 | 10/07 | 5.1, 5.2, 5.3 | PHW6 | Q6 |
| 9 | 10/14 | 5.3, 6.1 | PHW7 | Q7 |
| 10 | 10/21 | 6.2, <i>Review</i> | PHW8 | Q8 |
| 11 | 10/28 | 12.6, 12.7 | | |
| 12 | 11/04 | 6.4, 6.5 | PHW9 | Q9 |
| 13 | 11/11 | 6.6, 7.1, 7.4 | PHW10 | Q10 |
| 14 | 11/18 | 7.4, 7.2 | PHW11 | Q11 |
| 15 | 11/25 | Thanksgiving Break | | |
| 16 | 12/02 | <i>Review</i> | PHW12 | Q12 |

Students Learning Outcomes

1. Students will be able to formulate real-world problems into mathematical statements.
2. Students will interpret a narrative description of a situation and set up variables and relationships needed to determine a solution.
3. Students will be able to develop solutions to mathematical problems at the level appropriate to this course, i.e., apply the principles and techniques of differential and integral calculus.
4. Students will be able to describe or demonstrate mathematical solutions either numerically or graphically.

Assessment Items and Other Details

1. Paper Homework Assignments (PHWs):

- ↔ A pdf file of weekly homework(PHW) will be posted each week on eLearning. You can print the pdf of PHW, and write your solutions in the space provided. If a printer is unavailable, write the solutions on separate sheets of paper. Be sure to write your name, and lecture section number. Scan PHW as a single PDF and upload it on eLearning every Tuesday on or before 11:59 pm.
- ↔ PHW received after the deadline will get a zero.
- ↔ You must show all your work to earn full credit. Correct answers without sufficient supporting work will receive no or reduced credit.
- ↔ You may ask questions about PHW to your instructor.
- ↔ Only a subset of assigned problems will be graded. You will not be told in advance which ones.
- ↔ Your PHW average will be obtained by dropping your lowest PHW score and averaging the remaining scores.

2. Quizzes:

- ↔ There are quizzes given weekly except for exam weeks.
- ↔ The quizzes will be taken during the lecture every Thursday at the end of the class, except for the exam weeks.
- ↔ You will receive a zero for a missed quiz.
- ↔ Your quiz average will be obtained by dropping your lowest quiz score and averaging the remaining scores.

3. Mid-Term Exams:

- ↔ There will be two midterm examinations. See Important Dates for examination dates.

4. **Final Exam:**

↔ Comprehensive, but somewhat more emphasis will be placed on later material.

5. **Participation:**

↔ Regular class participation is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. 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.

6. **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.

7. **GRADING SCHEME**

- * ↔ Quiz: 20% (The lowest quiz score will be dropped at the end of the semester.)
- ↔ Paper Homework Assignment: 20% (The lowest PHW will be dropped at the end of the semester.)
- ↔ The best midterm exam score: 20%
- ↔ The second best midterm exam score: 15%
- ↔ Final exam: 25%
- * 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:** Monday, August 19, 2024.
- ↔ **Census Day:** Wednesday, September 04, 2024: Last Day to Drop a class without a “W” Full Term Session.
- ↔ **Labor Day:** Monday, September 02, 2024: No class.
- ↔ **Midterm Exam I:** Monday 8:30pm-10:00pm, September 23, 2024.
- ↔ **Midterm Exam II:** Monday 8:30pm-10:30pm, October 28, 2024.
- ↔ **Last Day of Classes:** Thursday, December 05, 2024.
- ↔ **Final Exam:** Monday, 7:00pm-9:30pm, December 09, 2024.

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.

| |
|-------------|
| 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.” |
|---|