

Course Syllabus

MATH 1314.0U1 – College Algebra – Summer 2025

Course Information:

Term	Summer 2025
Course Number	MATH 1314.0U1
Time	MW 10:00am–12:00pm
Meeting Room	SCI 3.240

Instructor Information:

Name	Dr. Nasrin Sultana
Email	Nasrin.Sultana@UTDallas.edu
Office Hours	MW 12:15–1:15pm or by appointment
Office Location	FA 2.106

Course Description: MATH 1314 – College Algebra (3 semester hours). Course covers topics chosen from areas such as equations and inequalities, rational expressions, exponents, radicals and logarithms, functions and graphs.

Course Outcomes:

By the end of this course, students will be able to:

1. Demonstrate understanding of fundamental algebraic concepts including functions, equations, and inequalities.
2. Analyze and graph linear, quadratic, polynomial, rational, exponential, and logarithmic functions.
3. Solve algebraic equations and systems of equations using appropriate methods.
4. Apply algebraic techniques to model and solve real-world problems.
5. Communicate mathematical reasoning clearly and effectively in written and verbal form.
6. Utilize appropriate technology (e.g., graphing calculators or software) to explore and verify algebraic concepts.

Learning Objectives:

To achieve the Course Outcomes, students will:

- Simplify algebraic expressions and perform operations with polynomials, rational expressions, and radicals.
- Solve linear and quadratic equations, as well as inequalities in one and two variables.
- Interpret and construct function notation and use it to evaluate and describe relationships between variables.
- Determine the domain and range of functions and understand their graphical behavior.
- Perform operations on functions including composition and inversion.
- Analyze the properties of exponential and logarithmic functions and solve related equations.
- Solve systems of linear equations using graphing, substitution, and elimination methods.
- Apply algebraic methods to solve problems in contexts such as finance, physics, and population growth.
- Use graphing tools to investigate the behavior of functions and support problem-solving strategies.

All course assignments can be found on UTD's Blackboard site <https://elearning.utdallas.edu/> under section 0U1. You will receive a notice via elearning (either an announcement and/or an email) if there is additional information, such as assignment or exam date change, etc., or an urgent message, such as class canceled, etc., that directly affects this course.

Prerequisite(s): ALEKS score required or a grade of at least a C- in STAT 1342.

Recommended Text: *College Algebra*, Abramson, published by OpenStax. This textbook can be downloaded or viewed online for free (<https://openstax.org/details/books/college-algebra>). A hard copy of the textbook may also be purchased through: <https://www.amazon.com/dp/171149402X>.

Recommended Supplies:

A non-programmable, non-graphing basic or scientific calculator. Calculators which can perform calculus operations or solve algebraic equations or inequalities are strictly prohibited. A scientific calculator may be borrowed from the UTD library <https://library.utdallas.edu/services/borrowing/>.

Grade Distribution:

Assignments	20%
Quizzes	15%
Exam 1 & 2	40%
Final Exam	25%

- **Assignments:** There are 10 homework assignments, the lowest score will be dropped. The assignments will be posted in elearning every Monday at 12:00am and will be **due on the following Monday at 11:59pm**.
- **Quizzes:** There are 7 quizzes, the lowest score will be dropped. Quizzes are taking **weekly in-class at the end of Wednesday class**, except for the first week and exam weeks. Quizzes will only cover topics from the previous week.
- **Exam 1 & 2:** There will be 2 exams, each worth 20% of course grade. You will receive zero for a missed exam.
- **Final Exam:** There will be a comprehensive final exam, it is 25% of course grade.

Letter Grade Distribution:

[96.6, 100]	A+	[93.3, 96.6)	A	[90, 93.3)	A-
[86.6, 90)	B+	[83.3, 86.6)	B	[80, 83.3)	B-
[76.6, 80)	C+	[73.3, 76.6)	C	[70, 73.3)	C-
[66.6, 70)	D+	[63.3, 66.6)	D	[60, 63.3)	D-
[0, 60.0)	F				

Calendar:

The schedule might change as it depends on the progress of the class.

Week	Monday	Wednesday	Holidays
Week 1	6/2: Syllabus, Sec 1.1, 1.2	6/4: Sec 1.3, 1.4	
Week 2	6/9: Sec 1.5, 1.6 HW 1	6/11: Sec 2.1, 2.2 Quiz 1	
Week 3	6/16: Sec 2.3, 2.4 HW 2	6/18: Sec 2.5, 2.6 Quiz 2	6/19: Juneteenth Day (Thu)
Week 4	6/23: Sec 2.7, Review HW 3	6/25: Exam 1	
Week 5	6/30: Sec 3.1, 3.2 HW4	7/2: Sec 3.3, 3.4 Quiz 3	7/4: Independence Day(Fri)
Week 6	7/7: Sec 3.5, 3.6 HW5	7/9: Sec 3.7, 4.2 Quiz 4	
Week 7	7/14: Sec 5.1, 5.2 HW6	7/16: Sec 5.3, 5.4 Quiz 5	
Week 8	7/21: Sec 5.5, Review HW 7	7/23: Exam 2	
Week 9	7/28: Sec 5.6, 6.1 HW8	7/30: Sec 6.2, 6.3 Quiz 6	
Week 10	8/4: Sec 6.4, 6.5 HW9	8/6: Sec 6.6, 7.1 Quiz 7	
Week 11	8/11: Review HW 10	8/13: Final Exam	

Important Dates:

- Class Begin: 6/2: Tuesday
- **Exam 1:** 6/25: Wednesday,
- Census Day, Last day to drop without a “W”: Wednesday, 6/17
- University Closed: 6/19: Thursday, Juneteenth Day
- **Exam 2:** 7/23: Wednesday
- Last Day of Classes: 8/13: Wednesday
- **Final Exam:** 8/13: Wednesday

Students are encouraged to refer to the UTD academic calendar (<http://www.utdallas.edu/academiccalendar/>) for any important dates.

Course Policies:

- **General**
 - Laptops, phones, tablets, and the other smart devices are not allowed during lectures, unless it is used for note-taking.
 - Quizzes and exams are closed book, closed notes. A basic or scientific non-graphing calculator is allowed to use, see the *recommended supplies* for more detail.
 - **No makeup quizzes or exams will be given.** In the case of extreme circumstances, you are expected to report to your instructor before the deadline of the coursework and resolve the problem within one week after the deadline.
 - **No late assignments will be accepted under any circumstances.**
- **Grades**
 - **No extra credits** for this course.
 - All grade will be posted in elearning in one week. Students are responsible for tracking their progress. Please contact the instructor as soon as possible if there is a grading error on any coursework.

The UT Dallas Syllabus Policies and Procedures:

<https://go.utdallas.edu/syllabus-policies>

Sharing Confidential Information

Students considering sharing personal information in email or in person should be aware that all University staff, faculty, teaching assistants/associates, and graduate/research assistants are required by UT Dallas policy to report information about sexual misconduct to the UT Dallas Title IX Coordinator. Per university policy, Sexual Misconduct Policy - UTDBP3102, faculty have been informed that they must identify the student to the UT Dallas Title IX Coordinator. Students who wish to have confidential discussions of incidents related to sexual harassment or sexual misconduct should contact the following for example:

1. the Student Counseling Center (972-883-2575 or the 24/7 Crisis Hotline at 972-UTD-TALK or 972-883-8255),
2. a health care provider in the Student Health Center (972-883-2747),
3. a clergyperson (or other legally recognized religious advisor) of their choice, or
4. an off-campus resource (e.g., a rape crisis center, doctor, psychologist).

Students who are sexually assaulted, harassed, or are victims of sexual misconduct, domestic violence, or stalking, are encouraged to directly report these incidents to the UT Dallas Police Department by calling 972-883-2222 or calling the Title IX Coordinator at 972-883-4470. Their website, Institutional Compliance Support Services and Resources (<https://institutional-compliance.utdallas.edu/compliance/resources/>) has additional information.

Technical Support

If you experience any issues with your UT Dallas account, contact the UT Dallas Office of Information Technology Help Desk (assist@utdallas.edu) or call 972-883-2911.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week through UTD eLearning Helpdesk (<https://ets.utdallas.edu/elearning/helpdesk>). The services include a toll-free telephone number, 1-866-588-3192, for immediate assistance, Educational Technology Services (eLearning) is available by email (elearning@utdallas.edu) to request services. They also have an online chat service.

Field Trip Policies, Off-Campus Instruction and Course Activities

Off-campus, out-of-state, foreign instruction/travel, and course-related field trip activities are subject to state law and university policies and procedures regarding travel and risk-related activities. Detailed information regarding this policy, in accordance to Texas Education Code, Section 51.950, can be accessed through the UT Dallas Policy UTDBP3023, and the Travel-Related Risk Risks webpage. Additional information is also available from the office of the school dean by telephone, 972-883-6391 or by email.

Student Conduct and Discipline

The University of Texas System Regents' Rule 50101 and UT Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the Student Complaints Resources within the online UT Dallas Undergraduate Catalog, and the Graduate Catalog.

UT Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the (Student Code of Conduct, UTDSP5003). Copies of these rules and regulations are available to students in the Office of Community Standards and Conduct, where staff members are available to assist students in interpreting the rules and regulations (SSB 4.400, 972-883-6330) and online at their webpage (<https://conduct.utdallas.edu/>).

A student at the University neither loses their rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating its standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high-level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrates a high standard of individual honor in his or her scholastic work. Additional information is provided within their website.

Academic Dishonesty: Academic dishonesty can occur in relation to any type of work submitted for academic credit or as a requirement for a class. It can include individual work or a group project. Academic dishonesty includes plagiarism, cheating, fabrication, and collaboration/collusion. In order to avoid academic dishonesty, it is important for students to fully understand the expectations of their professors. This is best accomplished through asking clarifying questions if an individual does not completely understand the requirements of an assignment.

Additional information related to academic dishonesty and tips on how to avoid dishonesty may be found on their website (<https://conduct.utdallas.edu/dishonesty>).

Copyright Notice

It is the policy of UT Dallas to adhere to the requirements of the United States Copyright Law of 1976, as amended, (Title 17, United States Code), including ensuring that the restrictions that apply to the reproduction of software are adhered to and that the bounds of copying permissible under the fair use doctrine are not exceeded. Copying, displaying, reproducing, or distributing copyrighted material may infringe upon the copyright owner's rights. Unauthorized distribution of copyrighted material, including unauthorized peer-to-peer file sharing, may subject students to appropriate disciplinary action as well as civil and criminal penalties. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act. The fair use exemption has more information. As a UT Dallas student, you are required to follow UT Dallas' copyright policy, UTDPP1043 and the UT System's copyright policy, UTS107.

In accordance with Regents' Rule 90101, section 6, and federal copyright law, a student enrolled in a course owns the intellectual property created by the student in the course.

Email Use

UT Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. All official student email correspondence will be sent only to a student's UT Dallas email address and UT Dallas will only consider email requests originating from an official UT Dallas student email account. This allows the University to maintain a high degree of confidence in the identity of each individual corresponding via email and the security of the transmitted information. UT Dallas furnishes each student with a free email account that is to be used in all communication with university personnel. The Office of Information Technology provides a method for students to have their UT Dallas mail forwarded to other

email accounts. To activate a student UT Dallas computer account and forward email to another account, access NetId Self-Service Portal (<https://oit.utdallas.edu/netid/self-service/>) to set it up.

Class Participation

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade in the course is directly tied to class participation. It also includes students' engagement in group or other activities during class that solicit feedback on homework assignments, readings, and/or materials covered in the lectures and/or labs. Class participation is documented by faculty. Successful class participation is defined as consistently adhering to University requirements, as presented in the syllabus. Failure to comply with these University requirements is a violation of the Student Code of Conduct - UTSP5003.

Withdrawal from Class

The administration at UT Dallas has established deadlines for withdrawal from any course. These dates and times are published in the Comet Calendar and in the Academic Calendar (<https://www.utdallas.edu/academics/calendar/>). It is the student's responsibility to handle withdrawal requirements from any class. In other words, a professor or another instructor cannot drop or withdraw any student unless there is an administrative drop such as the following:

- Not meeting the prerequisites for a specific course
- Not satisfying the academic probationary requirements, resulting in suspension
- An Office of Community Standards and Conduct request
- Not making appropriate tuition and fee payments
- Enrollment is in violation of academic policy
- Not admitted for the term in which they registered

It is the student's responsibility to complete and submit the appropriate forms to the Registrar's Office and ensure that he or she will not receive a final grade of "F" in a course if he or she chooses not to attend the class after being enrolled.

Accommodations for Students with Disabilities

The University of Texas at Dallas is committed to providing reasonable accommodations for all persons with disabilities. The syllabus is available in alternate formats upon request. If you are seeking classroom accommodations under the Americans with Disabilities Act (2008), you are required to register with the AccessAbility Resource Center (ARC) (<https://accessability.utdallas.edu/>), located in the Administration Building, Suite 2.224. They can be reached by email, calling 972-883-2098, or at their website. To receive academic accommodations for this class, please register and request services by completing the Request for Services form with the proper documentation and meeting with the Director of ARC at the beginning of the semester.

Religious Holy Days

UT Dallas will excuse a student from class or other required activities, including examinations and travel time, for the observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, of the Texas Tax Code.

Students are encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment.

Excused students will be allowed to take missed exams or complete assignments within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the school's vice or associate dean, who serve as the President's designees for these rules. The vice or associate deans must take into account the legislative intent of Texas Education Code 51.911(b), and the student and instructor will abide by the decision of the vice or associate dean.

Resources to Help You Succeed

The **Student Success Center** (SSC) offers assistance to students in the areas of writing, mathematics, communication, multiple science fields, study skills, and other academic disciplines. These services are available through individual appointments, small group appointments, drop-in labs, workshops, and weekly reviews. All undergraduate students enrolled at UT Dallas are eligible to participate in these services. Not all courses will be supported by all services. Please check the website at the beginning of each semester to find out which courses are supported by which services.

The SSC is divided into six units and undergraduate students are able to use as fits their course needs each semester. All services are free of charge.

In Academic Success Coaching (ASC), students can receive help with time management, goal setting, test preparation, and various other study techniques and strategies. Student coaches offer one-on-one appointments and workshops throughout the semester.

The Communication Lab (CommLab) offers one-on-one and group appointments where students can gain practical feedback for improving oral and group presentations.

The Peer-Led Team Learning (PLTL) program provides an active, engaged learning experience for students enrolled in potentially difficult gateway courses. Students who register with PLTL will meet in small groups once a week and are expected to attend every session. Students who regularly attend sessions typically earn a half to a whole letter grade higher than students who do not participate in the PLTL program.

Peer Tutoring (PT) offers math and science tutoring assistance for many of the historically challenging undergraduate courses at UT Dallas. The sessions are designed to address students' individual questions and needs; however, the tutors do not provide answers for homework, quizzes, or exams. Peer Tutoring services include drop-in tutoring for most 1000 and 2000 level courses, one-on-one appointments for a limited number of 3000 and 4000 level courses, and weekly reviews the timings of which vary by semester.

Supplemental Instruction (SI) provides peer-facilitated weekly study sessions for students taking historically difficult courses. SI sessions encourage active, collaborative learning based on critical thinking and transferable study skills. SI Leaders attend lectures and take notes, just like the enrolled students. Students should check the SSC website for supported subjects and session times.

The Writing Center (WC) is a collaborative learning environment for students interested in developing stronger writing skills. One-on-one appointments are offered, as are weekly workshops. Scheduling an appointment is strongly recommended, but drop-in hours are also available.

These descriptions and timelines are subject to change at the discretion of the instructor.