

University of North Texas at Dallas

Fall 2025 Syllabus

2025FA - MATH 1324 – 0002 – Business Mathematics (3hrs)	
Department of	Mathematics
Instructor Name	Helena Grant
Office Location	FH 308
Office Phone	N/A
Email Address	Helena.grant@untdallas.edu
Office Hours	T/R 4:00 pm – 5: 20 pm by appointment
Class Meeting Location Days & Times	DAL1 226, TR 2:30 PM to 3:50 PM
Course Catalog Description	Topics from algebra (linear equations, quadratic equations, functions and graphs, exponential and logarithmic functions, and systems of equations), mathematics of finance (simple and compound interest, annuities and amortization) and applications to management, business and economics.
Prerequisites	TSI Math Complete; or MATH1305 (formerly MATH 1010) with a grade C or better; or concurrent enrollment in MATH 1305 (formerly MATH 1010)
Required Text	<p>The required text and materials for this course is found in WebAssign. You link directly to these materials through the Canvas course assignments link. You will need to register for the class. The link brings you to the Cengage program, WebAssign.net. You will need to purchase WebAssign to complete your homework and test for the course. Your book is an e-text included in the program. Cengage provides you with 2 weeks of free access to the course, but you will be asked to pay for the access after 9/7/25</p> <p>The book for this course (included with the WebAssign Learning program) is Harshberger, R. J., Reynolds, J.J., <i>Mathematical Applications for the Management, Life and Social Sciences</i>, 12 ed., Cengage Learning, 2018</p>
Access to Learning Resources:	<p>UNT Dallas Library: phone: (972) 780-1616 web: http://www.untdallas.edu/library email: library@untdallas.edu</p> <p>UNT Dallas Bookstore: phone: (972) 780-3652 web: http://www.untdallas.edu/bookstore e-mail: untdallas@bkstr.com</p>
Supported Browsers: Chrome 67 & 68 Firefox 60 & 61 Flash 29, 30 (for audio/video) Respondus Lockdown Browser Safari 10, 11	<p>Access Canvas via untdallas.instructure.com</p> <ul style="list-style-type: none"> Username: your EUID # Password: your password <p>Getting Help with Canvas:</p> <p>Canvas 24/7 Phone Support for Students: 1-833-668-8634</p> <p>Canvas Help Resources:</p>

Supported Devices: Iphone Android Chromebook (Tablet users can use the Canvas app) Screen Readers: VoiceOver (Safari) Jaws (Internet Explorer) NVDA (Firefox) Note: There is no screen reader support for Canvas in Chrome	Web: Canvas Student Guide For additional assistance, contact Student Assistance (Distance Learning): DAL 1, Rm 157 phone: (972)338-5580 email: distancelearning@untDallas.edu <i>If you are working with Canvas 24/7 Support to resolve a technical issue, make sure to keep me updated on the troubleshooting progress.</i> <i>If you have a course-related issue (course content, assignment troubles, quiz difficulties) please contact me during office hours or by email.</i>
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Course Goals or Overview:

1	Critical Thinking Skills – to include thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2	Communication Skills – to include effective development, interpretation & expression of ideas through written, oral and visual communication.
3	Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts in informed conclusions
Student Learning Objectives (SLOs): At the end of this course, students will be able to:	
1	Gain awareness of fundamental concepts of functions and other concepts of algebra.
2	Be able to demonstrate their knowledge by solving various mathematics problems with an emphasis on business-related applications, which require both analytical and numerical reasoning.
3	Be able to locate, evaluate & organize information related to business and express the conclusion in mathematical topics.
4	Be able to think critically and creatively so as to apply different systems of analysis, algebraic and numerical, and then to compare the results from the two systems.
5	Acquire problem solving skills that apply to business that incorporate multiple viewpoints and different contexts in their analysis.
6	Be able to read, write and manipulate mathematical phrases according to mathematical grammar.

Course Calendar

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class or via class email or Canvas announcement. Additional readings and activities may be added, these will be noted in the Readings and Activities/Assignments sections.

Dates	Sections	Topics
Week 1 8/25 – 08/31	0.3 0.4	Exponents and First Day Activities Rational Exponents & Radicals
Week 2 09/01 – 9/7	0.5 0.6	Operations with Algebraic Expressions Factoring
Week 3 9/8 – 9/14	0.7 1.1	Algebraic Fractions Solutions of Linear Equations in One Variable
Week 4 9/15 – 9/21	1.2	TEST 1 Functions
Week 5 9/22 – 9/28	1.3 1.4	Linear Functions Graphs and Graphing Utilities
Week 6 9/29 – 10/05	1.5 1.6	Solutions of Systems of Linear Equations Applications of Functions in Business and Economics
Week 7 10/06 – 10/12	2.1	TEST 2 Quadratic Equations
Week 8 10/13 – 10/19	2.2 2.3	Quadratic Functions: Parabolas Business Applications Using Quadratics
Week 9 10/20– 10/26	2.4 2.5	Special Functions and Their Graphs Modeling; Fitting Curves to Data with Graphing Utilities
Week 10 10/27 – 11/02	5.1	TEST 3 Exponential Functions
Week 11 11/03 – 11/09	5.2 5.3	Logarithmic Functions and Their Properties Equations and Applications with Exponential and Logarithmic Functions
Week 12 11/10 – 11/16	6.1 6.2	Simple Interest Compound Interest
Week 13 11/17 – 11/23	6.3 6.4	Future Value of Annuities Present Values of Annuities
Week 14 11/24 – 11/30	6.5	Loans and Amortization
Week 15 12/01 – 12/7		TEST 4 Review for Finals
Week 16 12/08 – 12/11		FINAL EXAM

Grading Matrix

$$0 \leq F < 60\% \leq D < 70\% \leq C < 80\% \leq B < 90\% \leq A$$

Web Assign Homework (on-line)	15%
Class Activities/Attendance	05%
Test 1	15%
Test 2	15%
Test 3	15%
Test 4	15%
Final Exam (comprehensive)	20%

Lowest test score may be replaced by final exam score if it benefits the student's average.

Course Evaluation Techniques

1. In-Class Activities/Participation

It is important to be involved in your learning process and participate fully in the class. You will complete class activities. These learning activities allow you to actively engage in the class and with your classmates. Some of these assignments will be collected and graded. Not every assignment will be collected. Students missing a class, late to class, or leaving early may not make up these assignments. If you miss, are late, or leave early, you will receive a 0 for the assignment. Remember when completing these activities to treat each other as you expect to be treated.

2. **Web Assign Homework:** Homework will be completed online through Web Assign, a product of Cengage, the publishers of our textbook. The homework is found by clicking the link in your Canvas course or listed under the weekly module. Each student is required to purchase an access code to gain access to the assignments. Students must purchase and register in Web Assign immediately. The online homework may be accessed from any computer, including the general access lab on campus. HW Assignment due dates may be found on Web Assign. **Failure to submit homework by the due date will earn a penalty of 20%**, and it must be submitted within 5 days of the due date. NO EXCEPTIONS. The penalty will apply to only questions that are not answered by the due date. You will have one Web Assign HW assignment for each section covered in class.

3. **Test:** Four tests will be taken through this semester and are posted on the above schedule. You will need to complete the test on the date administered in class. Students who miss a test will receive a 0 for the missing test. Tests are cumulative and may require skills previously learned in the course. The final exam will replace a missing test grade for a student missing a test during the semester.

4. **Final Exam:** The final exam is cumulative covering all the material we have completed in the course. A student not completing the final exam will receive a 0 for the exam.

Requesting an Automatic Extension

On any Web Assign Assignment:

If you miss a due date, you can select "Request an Extension." I have it set up to be automatically granted within the parameters listed below.

- There is a 20% deduction for any problems answered during the extension.
- Only 1 extension request per assignment is allowable.
- You have 3 days from the assignment due date to request an extension.
- You have 5 days from your extension request date to complete the assignment.

Course Policies

1. **Make-Up Exams:** All exams should be taken during the designated time period. No make-up exams will be allowed except in the case of documented emergencies (see Student Handbook). All requests for make-up exams must be submitted to the instructor in writing, with the supporting documents. It is imperative that you contact your instructor as soon as possible when you know you will be missing an exam.
2. **Email Policy:** Use your Canvas email account to contact me. Please check your email daily as you are responsible for all information posted to Canvas and emailed. Due to privacy rights, I will not be able to discuss grades over the phone and I will only respond to emails from your Canvas account.

3. **Technology Policy:** When appropriate, using technology is encouraged. Any graphing calculator that does not have a Computer Algebra System (CAS) is approved and required. I recommend the TI-84 Plus or TI-84 Plus CE. The use of cell phones is prohibited except in exceptional circumstances.
4. **Copyright Policy:** The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this course, which include but are not limited to syllabi, lecture notes, quizzes, exams, in-class materials, review sheets, projects, and problems sets. Because these materials are copyrighted, you do not have the right to copy and distribute the handouts, unless I expressly grant permission.

5. **Math Lab “Learning Commons”**

The UNT Dallas Learning Commons offer free, one-on-one or group tutoring services to all registered undergraduate students. Their goal is to help students improve their math skills, succeed in all of courses requiring math, and learn math-related skills they will need post-graduation. The Learning Commons works with students enrolled in all math, statistics, accounting, finance, and science courses.

- Students may take advantage of the free online tutoring service through SMARTHINKING. To get more information about this service, visit <https://learn.untdallas.edu/smartthinking>.
6. **Attendance and Participation Policy:**
The university attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at <https://www.untdallas.edu/hr/upol>.
 7. **The following are miscellaneous policies that are expected to be followed throughout the course:**
 - a. Respect is given to all. We listen to other opinions and ideas. We all put forth our best efforts for the good of the class.
 - b. Be aware of all announcements made for the class and changes made to the syllabus. Such changes will be posted to Canvas.
 - c. You are expected to review all graded activities, assignments, homework and exam papers as soon as they are returned. If you have questions regarding the grading of any of these assignments/assessments, you must inquire about it within **seven** calendar days of the date on which the paper is returned to the class.
 - d. To succeed in this course, you must keep up with homework assignments and assigned readings.
 - i. Reading the textbook lesson prior to class is **STRONGLY RECOMMENDED**.
 - ii. Completing the homework, the day it is assigned is the best plan of action.
 - iii. Doing the homework as it is assigned allows time to seek help as needed before the HW due date.
 - e. If you are not making mistakes, you are not learning. Get a big eraser and just dive into the math pool head-first!
 - f. I am available during my office hours to assist you and hope to see you often.

University Policies and Procedures

Students with Disabilities (ADA Compliance):

Chapter 7(7.004) Disability Accommodations for Students:

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see [Disability Services Office](#). You may also contact them by phone at 972-338-1777; by email at UNTDisability@untdallas.edu or at Building PL, room 1104.

Disruptive Behavior in an Instructional Setting:

Students are expected to engage with the instructor and other students in this class in a respectful and civil manner at all times to promote a classroom environment that is conducive to teaching and learning. Students who engage in disruptive behavior will be directed to leave the classroom. A student who is directed to leave class due to disruptive behavior is not permitted to return to class until the student meets with a representative from the Dean of Students Office. It is the student's responsibility to meet with the Dean of Students before class meets again and to provide the instructor confirmation of the meeting. A student who is directed to leave class will be assigned an unexcused absent for that class period and any other classes the student misses as a result of not meeting with the Dean of Students. The student is responsible for material missed during all absences and the instructor is not responsible for providing missed material. In addition, the student will be assigned a failing grade for assignments, quizzes or examinations missed and will not be allowed to make up the work.

The Code of Student's Rights, Responsibilities, and Conduct (Policy 7.001) describes disruption as the obstructing or interfering with university functions or activity, including any behavior that interferes with students, faculty, or staff access to an appropriate educational environment. Examples of disruptive behavior that may result in a student being directed to leave the classroom include but are not limited to: failure to comply with reasonable directive of University officials, action or combination of actions that unreasonably interfere with, hinder, obstruct, or prevents the right of others to freely participate, threatening, assaulting, or causing harm to oneself or to another, uttering any words or performing any acts that cause physical injury, or threaten any individual, or interfere with any individual's rightful actions, and harassment. You are encouraged to read the Code of Student's Rights, Responsibilities, and Conduct for more information related to behaviors that could be considered disruptive.

Canvas Instructure Accessibility Statement:

University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. [Canvas Instructure Accessibility Statement is also provided.](#)

NOTE: Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Course Evaluation Policy:

Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

Assignment Policy: (According to the instructor's discretion while working in concert with the division/program's guidelines).

Exam Policy: (Online exams and the ability to retake is solely at the instructor's discretion). **NOTE:** Online exams

may be proctored on campus per instructor's discretion.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to [UNT Dallas' Student Code of Academic Integrity](#) for complete provisions of this code.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection: Please be aware in some online or hybrid courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Classroom Policies

The University attendance policy is in effect for this course. Class attendance in the Canvas classroom and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency.

. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to [UNT Dallas' Registrar](#) for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate.

Technology Assistance: In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus.

If you experience difficulty accessing or using components of the course, try using Google Chrome browser. If you still

experience technical difficulties, first, notify your instructor.

If the problem is still not resolved, call Student Assistance (Distance Learning) at the phone number listed on the first page of the syllabus. Also, no matter what browser you use, always enable pop-ups. For more information see:

- [UNT Dallas Canvas Technical Requirements](#)
- [Canvas Instructure Supported & Unsupported Operating Systems](#)

Important Dates:

First Day of Class	Monday, August 25, 2025
Labor Day (School Holiday)	Monday, September 1, 2025
Census Date/Last Day to Drop a Class	Wednesday, September 10, 2025
Fall Break	November 27 – November 28
Last Day to withdraw with a grade of “W”	Wednesday, November 7, 2025
Last Day of Class	Thursday, December 4, 2025
Final Exam	Week of December 8