Math1324.082 Finite Mathematics Online, 1st 8-weeks

Course Syllabus: Fall 2025

"Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed."

Instructor: Dr. Leah Reagan

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Office Hours	Mon-Tue-Wed-Thurs					
	In office 1:00 – 3:30			Professor checks emails and TEAMS messages multiple times daily.		*Other times available by appointment

This syllabus is an agreement between the instructor and the student.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified by the instructor.

Course Description:
The application of common algebraic functions, including polynomials, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. Three hours credit.

Prerequisite(s): 1) TSI Not Complete – Multiple Measures Placement with Corequisite Model
or 2) TSI Complete Status

Student Learning Outcomes:
Upon successful completion of this course, students will

1324.1 Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.

1324.2 Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.

1324.3 Apply basic matrix operations, including linear programming methods, to solve application problems.

1324.4 Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.

1324.5 Apply matrix skills and probability analyses to model applications to solve real-world problems.

Core Curriculum Purpose and Objectives:
Through the core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning.

Courses in the foundation area of mathematics focus on quantitative literacy in logic, patterns, and relationships. In addition, these courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience.

College Student Learning Outcomes:

Critical Thinking Skills

CT.1 Students will demonstrate the ability to 1) analyze complex issues, 2) synthesize information, and 3) evaluate the logic, validity, and relevance of data.

Communication Skills

CS.1 Students will effectively develop, interpret and express ideas through written communication.

Empirical and Quantitative Skills

EQS.1 Students will manipulate numerical data or observable facts by organizing and converting relevant information into mathematical or empirical form

EQS.2 Students will analyze numerical data or observable facts by processing information with correct calculations, explicit notations, and appropriate technology.

EQS.3 Students will draw informed conclusions from numerical data or observable facts that are accurate, complete, and relevant to the investigation.

Evaluation/Grading Policy:

A series of online homework problems (OHM Lumen) will be worth 30% of your final grade, Quizzes will be worth 10% of your final grade, and the Midterm and Final Exams will contribute to 60% of the final grade (30% each). You'll find it broken down below. **THE FINAL EXAM MUST BE PROCTORED!!**

If you are unable to take your Final Exam at NTCC's Testing Center (free),then you must use TEAMs (free) to proctor your exams, OR have an approved proctor at another testing center (usually a cost involved). The TEAMs Proctoring Instructions can be found in Blackboard, as well as the Proctor Form you would need to get approved by me about a week PRIOR to the Final Exam. For TEAMs, students are required to have access to a computer with high-speed internet, a microphone, a webcam, and appropriate system rights to download and install the necessary software. Please note, the college does not provide this equipment.

****If an exam is not proctored appropriately, a grade of zero will be given.**

Grade Breakdown:

OHM-Lumen Homework	30%	Online homework via Blackboard
Module Quizzes	10%	Online quizzes via Blackboard
Midterm Exam	30%	Online via Blackboard
Comprehensive Final Exam	30%	Online - must be Proctored
	100%	Total

100% - 90% = "A"
89% - 80% = "B"
79% - 70% = "C"
69% - 60% = "D"
Below 60% = "F"

Make-up exams will not be given unless the student has coordinated with the instructor prior to the exam.

Lumen OHM homework will require the use of "Late Passes" if not completed by the scheduled due date. Each student has 255 last passes that extend the assignment due date for 48 hours. Students may use more than one late pass per assignment that is past due.
Any missed work will be made up at the discretion of the instructor. It is the student's responsibility to contact the instructor.

Required Instructional Materials:
Good news: your textbook for this class is available for free online, in web view and PDF format! You can also purchase a print version, if you prefer, via the campus bookstore or from lulu.com. The free PDF format is available in your Blackboard course. A graphing calculator is required (TI-83/84 is recommended). See available calculator option below (in blue).

Note: The NTCC Bookstore link is at www.ntcc.edu.

Publisher: Lulu.com **ISBN Number:** 22667462

Inclusive Access Course: A discounted textbook fee is added to your student account to cover the cost of the required access code. You will access your Access Code through Blackboard on the first-class day. Inclusive Access Content: 978-1-64087-166-3

Optional Instructional Materials:
Print version of textbook recommended.

Minimum Technology Requirements:
Graphing Calculator is required. TI-83/84 is recommended.

NOTE: The TI-84 Online Calculator is available for individual purchase by students through our TI Store. A single license for the TI-84 Online Calculator is $20 per year and it comes with full math functionality.

- **TI-84 Plus CE ONLINE Calculator** - $20.00 per year for an individual license

The link to the TI Store where students can purchase their individual licenses is found below:

TI STORE

Below are some technical requirements for using Blackboard that will help your experience in this course.

You will see the NTCC Tech Support email address and phone number below. Please contact them if you run into any technical problems during the semester. Please let your instructor know you are having difficulties as well.

If you need further NTCC technical support services, please contact Austin Baker or Mary Lou Pemberton at:

abaker@ntcc.edu or 903-434-8279
mpemberton@ntcc.edu or 903-434-8270

Blackboard will work on both a Mac and a PC. (Chrome Books are known to have issues with Blackboard.) It is best to access Blackboard through Fire-Fox or Chrome as your web browser. If you have trouble with any of the activities working properly, you might change your web browser as your first solution. The Default Browser in Windows 10 is Edge. This browser does not do well with Blackboard! If you go to Windows Accessories you will find Internet Explorer still on your computer but is not your default browser. If you have any difficulties navigating with Edge, close it and go to Internet Explorer.

You can download Blackboard Student for your smart phone from the Play store or the App store**.**

More information is available for Technology Requirements and Support under the Student Resources – Technical Support Tab in Blackboard.

Required Computer Literacy Skills:
As an online student you will have a much different "classroom" experience than a traditional student. To ensure that you are fully prepared for your online courses, following is a list of expectations and requirements: Students in a hybrid and/or on-line program should be comfortable with and possess the following skill sets:

1. Self-discipline
2. Problem solving skills
3. Critical thinking skills
4. Enjoy communication in the written word

As part of your online experience, you can expect to utilize a variety of technology mediums as part of your curriculum:

1. Communicate via email including sending attachments
2. Navigate the World Wide Web using a Web browser such as Internet Explorer
3. Use office applications such as Microsoft Office (or similar) to create documents
4. Be willing to learn how to communicate using a discussion board and upload assignments to a classroom Web site
5. Be comfortable uploading and downloading saved files
6. Have easy access to the Internet
7. Navigate Blackboard, including using the email component within Blackboard. Instructions and tutorials for this are provided in your course.

For more information or technical assistance on using the Learning Management System, please refer to the Home Page, Orientation Module, in the important technical requirement, information and support folder in Blackboard.

Course Structure and Overview:
This is an eight-week online course where students are required to access graded activities on the Blackboard Learning Management System. A typical class involves general participation by all members in discussions regarding mathematical principles and procedures being studied. Students are required to complete online homework, quizzes, discussion forums, and/or drop-box assignments. It is particularly important students keep up with course materials and assignments since this is a very fast-paced course. **Students are expected to watch instructional videos, read the course textbook, and complete online assignments located in Blackboard by due dates.**

Communications:
Emails, TEAMs, and/or Blackboard Messages will be responded to with 24 hours. If you do not receive a response within 24 hours, then the message was not received. Posts in the Discussion Forum "Questions, Comments, and/or Concerns?" will be monitored by the instructor. Responses by the instructor will be

within 72 hours of post. Students are expected to abide by Netiquette rules when communicating online. See this link for details: Netiquette Rules.

The college's official means of communication is via your campus email address. I will use your campus email address and Blackboard to communicate with you outside of class. Make sure you keep your campus email cleaned out and below the limit so you can receive important messages.

Institutional/Course Policy:
No late work will be accepted without prior approval by the instructor. Students are always expected to be respectful toward classmates and professor! Review Student Conduct in the Student Handbook. It is the student's responsibility to check Blackboard for important information/announcements regarding the course. Students should be working on course material via Blackboard every week. Do not wait until the last minute to complete and submit assignments in case of technology issues.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements
In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (http://www.ntcc.edu/) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

Statement Regarding the Use of Artificial Intelligence (AI) Technology:
Absent a clear statement from a course instructor, use of or consultation with generative AI shall be treated analogously to assistance from another person (collusion). Generative AI is a subset of AI that utilizes machine learning models to create new, original content, such as images, text, or music, based on patterns and structures learned from existing data (Cornell, Center for Teaching Innovation). Unauthorized use of generative AI tools to complete an assignment or exam is not permitted. Students should acknowledge the use of generative AI and default to disclosing such assistance when in doubt. Individual course instructors may set their own policies regulating the use of generative AI tools in their courses, including allowing or disallowing some or all uses of such tools. Students who are unsure of policies regarding generative AI tools are encouraged to ask their instructors for clarification. **(Adapted from the Stanford University Office of Community Standards-- accessed August 31, 2023)**

NTCC Academic Honesty/Ethics Statement:
NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:
It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations' page on the NTCC website.

Eagle Assist
At Northeast Texas Community College, we understand that students often need support that extends beyond the classroom. "Eagle Assist" is the place to start when looking for that type of assistance. Our support system is here to help you succeed in both your academic and personal growth. www.ntcc.edu/eagleassist
Services provided:
· Mental Health Counseling
· Classroom Accommodations
· NTCC Care Center Food & Hygiene Closet
· Financial Literacy
· Tutoring
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Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, mental health, alcohol or other drugs, identities, finances, etc.
Mental Health Counseling Services are available on campus- in person and online - to all NTCC students at no cost. If you are experiencing concerns, seeking help is a courageous thing to do. You can contact us directly at counselingcenter@ntcc.edu or call 903-434-7825. Open Monday-Thursday, 8am-6pm, Friday, **8am-12pm.**

Family Educational Rights and Privacy Act (FERPA):
The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

COURSE OUTLINE NEXT PAGE →

COURSE OUTLINE FOR MATH 1324.082 (Subject to Change)

***Students are expected to watch instructional videos, read the course textbook, and complete online assignments located in each Module folder on Blackboard by due dates.**

	Homework Due:	Quizzes due:
Complete the 7 steps in the "Start Course Here" folder (under the "First Day Instructions"). This includes setting up TEAMS, completing the Syllabus Acknowledgment, & the Introduction Discussion.	8/28	**ALL ASSIGNMENTS DUE BY MIDNIGHT ON DUE DATES BELOW
Module 1: Homework Sections 1.1 & 1.2	8/30	Module 1 Quiz: 8/31
Module 2: Homework Sections 1.4 & 1.5	9/3	Module 2 Quiz: 9/4
Module 3: Homework 1.6	9/6	Module 3Quiz: 9/7
Module 4: Homework Sections 2.2 & 2.3	9/9	Module 4 Quiz: 9/10
Module 5: Homework Sections 3.2 & 3.3	9/13	Module 5 Quiz: 9/14
Module 6: Homework 4.1	9/17	No Quiz for Module 6
MIDTERM REVIEW AND MIDTERM EXAM 9/20 – 9/21	Midterm Review (homework grade) due 9/20	EXAM will open at 8:00 on 9/20 and will close at midnight on 9/21
Module 7: Homework Sections 5.1 & 5.2	9/28	Module 7 Quiz: 9/29
Module 8: Homework Sections 6.1, 6.2, 6.4	10/4	Module 8 Quiz: 10/5
Module 9: Homework Sections 7.1 & 7.2	10/8	Module 9 Quiz: 10/9
Module 10: Homework Sections 8.1, 8.2, 8.4	10/12	Module 10 Quiz: 10/13
FINAL REVIEW & FINAL EXAM 10/16 – 10/17	Final Review (homework grade) due 10/16	EXAM will open at 8:00 on 10/16 and will close at midnight

**PROCTORED		on 10/17

2025 Fall Semester	
Faculty/Staff In-Service	8/18/2025 - 8/21/2025
First Class Day (16-week, 1st 8-week, 1st 5-week sessions)	8/25/2025
Late Registration Ends	8/29/2025
Labor Day Holiday	9/1/2025
Fall Census (1st 8-week session)	9/2/2025
Fall Census (16-week session)	9/10/2025
Last Day to Withdraw with a Grade of "W" (1st 8-week session)	10/7/2025
Last Class Day (1st 8-week session)	10/17/2025
First Class Day (2nd 8-week session)	10/20/2025
Deadline for Fall Graduation Application	10/23/2025
Fall Census (2nd 8-week session)	10/27/2025
Last Day to Withdraw with a Grade of "W" (16-week session)	11/18/2025
Last Day to Withdraw with a Grade of "W" (2nd 8-week session)	11/25/2025
Thanksgiving Break	11/26/2025 - 11/28/2025
Last Class Day (16-week session, 2nd 8-week session)	12/4/2025
Final Examinations	12/5/2025 - 12/11/2025
Fall Graduation	12/12/2025
Offices Close at 12:00 p.m. for Holiday Break	12/19/2025
2025 December Intersession	
Registration	12/10/2025
First Class Day	12/12/2025
Late Registration Ends	12/15/2025
December Census	12/17/2025
Last Day to Withdraw with a Grade of "W"	1/2/2026
Last Class Day/Final Examinations	1/9/2026

Course Identifier Codes

DC	Dual Credit
FE	Flex Entry Schedule
HN	Honors
HY	Hybrid
IN	Independent Study

MY	Mathways
ST	Stacked
TR	Traditional Schedule
TV	Two-Way Video
VC	Virtual College of Texas