Finite Mathematics – Math1324.881

Course Syllabus: Summer 2026

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

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Weekday	Office Hours
Monday	Online
Tuesday	Online
Wednesday	Online
Thursday	Online
Friday	Online

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

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

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.

Program 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 forms.

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:

The breakdown of the course requirements is as follows:

%	Requirement
40%	Midterm and Final Exams
30%	Homework – Lumen OHM
20%	Quizzes – Lumen OHM
10%	Participation/Engagement

Semester grades will be earned as follows

Percentage	Letter Grade
90% and above	A
80 %–89%	B
70 %–79%	C
60%–69 %	D

59.9% and below	F

A series of online Blackboard engagement opportunities (participation) including discussion forum and/or Bb assignments, which are 10% of final grade; online homework (30%) and quiz problems (20%) via OHM Lumen in Blackboard (Bb) are 50% of your final grade, and Midterm exam (20%) and Final Exam (20%) will contribute to 40%f the final grade. See Appendix for Discussion Forum Rubric.

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.

Homework via Lumen OHM graded when submitted. Discussion forums are graded within 72 hours after the due date. The Midterm and Final Exams are graded when submitted except for completion and/or show your work problems, these will be graded within 72 hours after the due date. A grading rubric for discussion forums is available in the Appendix at the end of the syllabus.

Make-up exams will not be given unless the student has coordinated with the instructor prior to the exam. Late work for whatever reason will incur a penalty unless otherwise indicated by the instructor.

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:

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. You have access to a free digital textbook on openstax.org. If you would like a printed textbook, these are available for purchase.

Publisher: Lulu.com

ISBN: 22667462

Optional Instructional Materials:

Printed Textbook by OpenStax
OpenStax- ISBN-13: 978-1-938168-06-2

Minimum Technology Requirements:

A scientific calculator is required. TI-83/84 is recommended.

The TI-84 Online Calculators is available for individual purchase by students through the TI Store. A single license for the TI-84 Online Calculator is $20 per year and the single license for the TI Nspire CX II Online Calculator is $27.50 per year. Both online calculator solutions come with full math functionality. For a full list of specifications and a comparison chart of the various functionalities for each of the online calculator solutions, please click on the appropriate link below.

- TI-84 Plus CE ONLINE Calculator - $20.00 per year for an individual license
- TI-Nspire CX II ONLINE Calculator - $27.50 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.

To use TEAMs, you must have access to a computer with high-speed internet, a microphone, a Webcam, and appropriate systems rights to download any necessary software. Please note, the college does not provide this equipment.

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. In order to ensure that you are fully prepared for your online part of the course, 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 requirements, information and support folder in Blackboard.

Course Structure and Overview:

This is a five-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 and discussion forums. It is particularly important for students to keep up with course materials and assignments since this is a very fast-paced course. Students are expected to watch instructional videos, read course textbooks, and complete online assignments located in the Learning Management System, Blackboard by due dates.

Communications:

Emails, TEAMs and phone messages will be responded to within 24 hours. If you do not receive a response within 24 hours, then the email or phone 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 professors! 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:

Employees and students shall be permitted to explore artificial intelligence (AI) and implement its use in and out of the classroom in accordance with policy and administrative regulations. The use of AI shall only be as a support tool to enhance student outcomes or as necessary to engage in research and shall never take the place of faculty, staff, and student decision-making. Any use of AI must comply with law, policy, and administrative regulations relating to student and employee privacy and data security. A student shall only use AI tools with faculty permission and shall be expected to produce original work and properly credit sources, including AI tools used in

creating the work.

Example:
APA (7th edition)
OpenAI. (2026). ChatGPT (March 25 version) [Large language model]. https://chat.openai.com/
MLA (9th edition)
OpenAI. ChatGPT. 25 Mar. 2026, https://chat.openai.com/.

Employees or students who use AI tools to deceptively harm, bully, or harass others shall be disciplined in accordance with policy. [See DH, DIA series, FFD series, FFE, FLB, and the FM series] AI Use by Employees and Students. Northeast Texas Community College 225500 TECHNOLOGY RESOURCES CRB ARTIFICIAL INTELLIGENCE (LOCAL) DATE ISSUED: 12/8/2025 1 of 1 UPDATE 50 CRB(LOCAL)-AJC Adopted: 12/16/2025

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 accommodation 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 accommodation as required to afford equal educational opportunity. It is the student's responsibility to request accommodation. 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.

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.

Tentative Course Schedule:

The Summer 2026 schedule outlines topics, assignments, and due dates for a course. It includes chapters on Functions, Systems of Equations, Linear Programming, Polynomials and Rational Functions, Exponential and Logarithmic Functions, Finance, Sets, Probability and Statistics.		
Weeks	**Topics/Assignments**	**Due Dates**
Week 1: 6/8 – 6/14	Course Orientation	
	Complete the Syllabus Acknowledgement Agreement	**6/11/26**
	Chapter 1: Functions and Lines	
	Sections 1.1 -1.2, 1.4 – 1.6	
	Introduction Discussion Forum. Read textbook & watch section videos then complete assigned Lumen HW. ***If needed: Submit Proctor Request Form** Complete Modules 1 – 3 Quizzes	6/14/26
Week 2: 6/15 – 6/21	Chapter 2: System of Equations and Matrices Chapter 3: Linear Programming	
June 19 - Holiday	Sections 2.2 – 2.3, 3.2 – 3.3	
	Read textbook & watch section videos then complete assigned Lumen HW. Work on Midterm Discussion forum. See Math Rubric. Complete Modules 4 – 5 Quizzes	6/21/26
Week 3: 6/22 – 6/28	Chapter 4: Polynomial and Rational Functions	
	Sections 4.1: Review textbook & video section materials.	
	Midterm exams will be available from 6/22 through midnight 6/28. Covers Week 1 through Week 3 material. **MUST BE PROCTORED**	6/28/26
Week 4: 6/29 – 7/5	Chapter 5: Exponential and Logarithmic Functions Chapter 6: Finance Chapter 7: Sets	
July 4 – Holiday	Sections 5.1 – 5.2, 6.1 – 6.2, 6.4, 7.1 – 7.2	
	Read textbook & watch section videos then complete assigned Lumen HW. Work on Final Discussion forum. See Math Rubric. Complete Modules 7 – 10 Quizzes	7/5/26
Week 5: 7/6 – 7/9	Chapter 8: Probability & Statistics	7/9/26
	Sections 8.1 – 8.2, 8.4	
	Complete & Submit Final Discussion Forum. Complete & Submit Final Exam **(Must be Proctored.)**	7/9/26
	Final Exam will be available from 7/3 through midnight 7/9. Covers Week 4 through Week 5. MUST BE PROCTORED	7/9/26

***Proctor request form only required if you are not using NTCC's Testing Center or TEAMs to proctor your final exam.**

Appendix:

Discussion Forum Math Rubric:

9 – 10: The student completes all important components of the task and communicates ideas clearly. The student demonstrates in-depth understanding of the relevant concepts and/or processes. Where appropriate, the student chooses more efficient and/or sophisticated processes. Where appropriate, the student offers insightful interpretations or extensions (Generalizations, applications, analogies).

7 – 8: The student completes most important components of the task and communicates clearly. The student demonstrates understanding of major concepts even though she/he overlooks or misunderstands some less important ideas or details.

5 – 6: The student completes some important components of the task and communicates those clearly. The student demonstrates that there are gaps in his/her conceptual understanding.

3 – 4: Student shows minimal understanding. Student unable to generate strategy or answer may display only recall effect. Answer lacks clear communication.

1 – 2: Answer may be totally incorrect or irrelevant.

0: Blank/no response