Math 2412.032 Pre-calculus Hybrid, 8-week class

Course Syllabus: Spring 2026

"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	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	1:00-3:30	1:00-3:30	1:00-3:30	1:00-3:30		Everyday via TEAMS Messaging & Email

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: Four credit hours.
This is a standard first course in functional analysis with algebra, geometry, and geometric interpretations. Topics include graphs, inverse functions, polynomial functions, rational and irrational functions, exponential and logarithmic functions, trigonometric functions, inverse trigonometric functions, Law of Sines, Law of Cosines, and analytic geometry. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Prerequisite(s): Math 1314 with a grade of "C" or better or an appropriate placement score

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

2412.1 Demonstrate and apply knowledge of properties of functions.

2412.2 Recognize and apply algebraic and transcendental functions and solve related equations.

2412.3 Apply graphing techniques to algebraic and transcendental functions.

2412.4 Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.

2412.5 Prove trigonometric identities.

2412.6 Solve right and oblique triangles.

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 (Lumen OHM) will be worth 40% of your final grade. A Midterm (30%) and Final Exam (30%) will contribute to 60% of the final grade.

Homework via Lumen OHM will be graded when submitted.

OHM - Lumen Homework	40%	Online homework via Blackboard
Midterm Exam	30%	Given in class
Final Exam	30%	Given in class
Total:	100%	

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

Lumen OHM homework will require the use of "Late Passes" if not completed by the scheduled due date. The Late Passes 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. Inclusive Access Content: 978-1-

64087-078-9. You have access to a free digital textbook on openstax.org. If you would like a printed textbook, these are available for purchase.

Publisher: Lumen   **ISBN Number:** 978-1-64087-078-9

Optional Instructional Materials: Print Textbook Precalculus by OpenStax
Hardcover: ISBN-10: 1-938168-34-8   ISBN-13: 978-1-938168-34-5
Paperback: ISBN-13: 978-1-50669-812-0

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

Minimum Technology Requirements:
Scientific Calculator required. TI-83 or TI-84 is preferred.

NOTE: A single license for the TI-84 Online Calculator is $20 per year.

- **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.

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. 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 8-week face-to-face 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 students keep up with course materials and assignments since this is a very fast-paced course. Students are expected to watch instructional videos, read course textbook, and complete online assignments located in the Learning Management System, Blackboard by due dates.

Communications:
Emails will be responded to with 24 hours. If you do not receive a response within 24 hours, then the email 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.

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

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.

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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.

Spring 2026 Schedule (subject to change) Math2412.032		
Weeks		Due Dates - Tentative
Week 1	Module 1: Chapter 1- Introduction to Functions: 1.1 – 1.7: Module 2: Chapter 2 - Linear Functions: 2.1 – 2.2	**All assignments due by midnight on the due date.
	Complete the Syllabus Acknowledgement Agreement (in Bb).	
	Review textbook section material.	
	Work on assigned online HW problems (there are several Homework sections in each module, so don't procrastinate).	**YOU CAN FIND ALL DUE DATES ON BLACKBOARD…I will assign them after I cover them in class.**
Week 2	Module 2: Chapter 2 - Linear Functions: 2.1 – 2.2	
	Review textbook section material & watch videos.	
	Complete assigned online HW problems (several assignments in Module 2 folder).	
	Module 3: Chapter 3 - Polynomial and Rational Functions: 3.1 – 3.6	
	Complete on assigned online HW problems (several assignments in Module 3 folder).	
Week 3	Module 4: Chapter 4 - Exponential and Logarithmic Functions: 4.1 – 4.6	
	Review textbook section material.	
	Complete assigned online HW assignments in Module 4 folder.	
Week 4	**Midterm Exam will be taken IN Class. Covers Weeks 1 through 4.**	
	Module 7: Chapter 5 - Trigonometric Functions of Angles: 7.1 – 7.4	
	Review textbook section material.	
	Complete assigned online HW problems.	

Week 5	Modules 8: Chapter 6 - Periodic Functions: 8.1 – 8.3	
	Review textbook section material.	
	Complete assigned online HW problems for Module 8	
Week 6	Module 9: Chapter 7 - Trigonometric Identities: 9.1 – 9.4	
	Review textbook section material.	
	Complete assigned online HW problems for sections 9.1 – 9.4	
	Module 9: Chapter 7 – Trigonometric Identities: 9.5 – 9.6 AND Module 10: Chapter 8 - Trigonometric Equations & Further Applications of Trigonometry: 10.1 – 10.2	
Week 7	Module 11: Chapter 10 - Analytic Geometry: 11.1 – 11.3	
	Review textbook section material.	
	Complete all assigned online HW problems. If needed, use "late passes" to complete any past due work from any Module.	
Week 8	**Final Exam: Final exam will be in class.** Covers Weeks 5-8	March 11, 2026

2026 Spring Semester

Offices Re-open .... Monday, January 5
Faculty In-Service ....Monday, January 12 – Thursday, January 15
Martin Luther King Day..Monday, January 19
First Class Day (16-week, 1st 8-week sessions)...Tuesday, January 20
Late Registration Ends..Friday, January 23
Spring Census (1st 8-week session) ....Tuesday, January 27
Spring Census (16-week-session) .... Wednesday, February 4
Staff In-Service..Friday, February 20 (8:00 a.m. – 12 p.m.)
Last Day to Withdraw with a Grade of "W" (1st 8-week session)....................... Tuesday, March 3
Deadline for Spring Graduation Application.. Friday, March 13
Last Class Day (1st 8-week session) ....Friday, March 13
Spring Break .... Monday – Friday, March 16 - 20
First Class Day (2nd 8-week session)..Monday, March 23
Spring Census (2nd 8-week session)...Monday, March 30
Final Day to Withdraw with Grade of "W" (16-week session).......................... Thursday, April 16
Last Day to Withdraw with a Grade of "W" (2nd 8-week session) .... Thursday, April 30
Last Class Day (16-week and 2nd 8-week sessions) ....Thursday, May 7
Final Examinations ....Friday, May 8 – Thursday, May 14
Spring Graduation.. Saturday, May 16

Course Identifier Codes

DC	Dual Credit		MY	Mathways
FE	Flex Entry Schedule		ST	Stacked
HN	Honors		TR	Traditional Schedule
HY	Hybrid		TV	Two-Way Video
IN	Independent Study		VC	Virtual College of Texas