



MATH 1351.882 Mathematics for Teachers II

Course Syllabus: Summer 2026

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

Professor: Dr. Leah Reagan

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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: This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem-solving and critical thinking. Three hours credit.

Prerequisite(s): MATH 1314 with a grade of “C” or better

Student Learning Outcomes:

1351.1 Apply fundamental terms of geometry such as points, lines, and planes to describe two- and three-dimensional figures.

1351.2 Make and test conjectures about figures and geometric relationships.

1351.3 Use a variety of methods to identify and justify congruency and similarity of geometric objects.

1351.4 Perform geometric transformations.

1351.5 Demonstrate fundamental probability techniques and apply those techniques to solve problems.

1351.6 Explain the use of data collection and statistics as tools to reach reasonable conclusions.

1351.7 Recognize, examine, and utilize the basic principles of describing and presenting data.

1351.8 Perform measurement processes and explain the concept of a unit of measurement.

1351.9 Develop and use formulas for the perimeter, area, and volume for a variety of figures.

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 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:

The breakdown of the course requirements is as follows:

%	Requirement
40%	Online Homework Assignments
30%	Midterm Exam
30%	Final Exam

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

Two exams will be given, a midterm and a final, which will count for 60% of your total grade (worth 30% each). If an exam is missed or failed, the highest possible make-up grade is a 70 (with instructor notification prior to the exam missed). **The final exam must be proctored.** You have 3 proctoring options:

- 1) You may come to campus and use our NTCC testing center to proctor your Final Exam (free), or
- 2) You may use another college testing center, but you must send me the Proctor Form (located in Bb) at least a week ahead of the exam (and realize there will probably be a fee involved at that testing center), or
- 3) You may use TEAMS to record yourself at your home, on your computer. This is FREE and I do recommend it. It will record you taking your exam, and then it will send me the recording. The instructions for recording yourself using TEAMS are in Bb.

The average of a series of homework assignments will be worth 40% of the total grade (all homework is on MyMathLab). All homework due dates are posted on MyMathLab. Homework is due on the due date...no exceptions.

Required Instructional Materials: When you registered for the class, you purchased the Inclusive Access code for MyMathLab (online homework and e-text).

ISBN Number:

You already purchased the Inclusive Access code below when you registered for this class.

LONG	9780134766751	Inclusive Access - Mathematical Reasoning Digital Text w/MyLab Access	7th
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Optional Instructional Materials: With MyMathLab, you will have an online e-text provided. If desired, you may also purchase the hard-back textbook:

Long, DeTemple, Millman (2015). Mathematical Reasoning for Elementary Teachers, 7th Edition

Publisher: Pearson, Boston, MA

Minimum Technology Requirements:

Scientific Calculator required. TI-83 or TI-84 is preferred. You may be able to find a free online TI-83/84 for PCs, and a free online graphing calculator for your phones (in the App store). Desmos is also a free graphing utility available to students (Desmos.com).

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](#).

Course Structure and Overview:

This is a 5-week online course where students are required to access graded activities on MyMathLab via the Blackboard Learning Management System. Students are required to complete online homework in MyMathLab, and over the course of the semester, a midterm exam and a final exam. It is very important for students to keep up with course materials and assignments since this is a very fast-paced, college-level course. Students are expected to watch posted instructional videos, read the course textbook, and complete online assignments located in MyMathLab, by the due dates.

Required Computer Literacy Skills:

To ensure that you are fully prepared for your 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 learning 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.

Communications:

Emails and TEAMS messages will be responded to within 24 hours. If you do not receive a response within 24 hours, then the email or text was not received. The fastest ways to reach Dr. Reagan are by email Lreagan@ntcc.edu and TEAMS messaging.

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 the 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:

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.

<u>Weeks</u>	<u>Topics</u>	<u>Assignments</u>	<u>All due by midnight</u>
WEEK 1	Complete ALL STEPS in the “First Day Instructions” to-do list in Blackboard	Complete the “Syllabus Acknowledgement Agreement” found in the “Start Course Here” folder in Blackboard.	7/15
	Chapter 9: Geometric Figures	Read textbook & watch videos in Blackboard. Complete assigned Chapter 9 Homework.	7/19
WEEK 2	Chapter 10: Measurement	Read textbook & watch videos. Complete assigned online Chapter 10 Homework.	7/22
	Chapter 11: Transformations, Symmetries, and Tilings	Read textbook & watch videos. Complete assigned online Chapter 11 Homework.	7/26
WEEK 3	Review for Midterm Exam	Make sure that ALL prior homework is caught up AND complete the MIDTERM REVIEW homework.	7/29
	Midterm Exam: Covering all sections from Week 1 through Week 3.	MIDTERM EXAM- opens at 8 a.m. 7/29 and closes at midnight on 7/30	7/29 to 7/30
WEEK 4	Chapter 12: Congruence, Constructions, & Similarity	Read textbook & watch videos. Complete assigned online Chapter 12 Homework.	8/2
	Chapter 13: Statistics	Read textbook & watch videos. Complete assigned online Chapter 13 Homework.	8/5
WEEK 5	Chapter 14: Probability	Read textbook & watch videos. Complete assigned online Chapter 14 Homework.	8/9
	REVIEW FOR FINAL EXAM	Make sure that ALL prior homework is caught up AND complete the FINAL EXAM REVIEW homework.	8/12
	FINAL EXAM	FINAL EXAM- opens at 8:00 a.m. 8/12 and closes at midnight on 8/13	8/13