



NORTHEAST TEXAS  
COMMUNITY COLLEGE

## MATH 1350 881 – Mathematics for Teachers I Online

Course Syllabus: Summer 2026

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

**Professor: Dr. Leah Reagan**

**Office:** MS 118 (not in office during summer)

**Phone:** 903-434-8290

**Email:** Lreagan@ntcc.edu

	Office Hours
	Professor checks emails and
	TEAMs texts multiple times
	daily during the summer.
	Responds quickly.

**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 conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number systems 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:

1350.1 Explain and model the arithmetic operations for whole numbers and integers.

1350.2 Explain and model computations with fractions, decimals, ratios, and percentages.

1350.3 Describe and demonstrate how factors, multiples, and prime numbers are used to solve problems.

1350.4 Apply problem-solving skills to numerical applications.

1350.5 Represent and describe relationships among sets using the appropriate mathematical terminology and notation.

1350.6 Compare and contrast structures of numeration systems.

## 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:*

<b>%</b>	<b>Requirement</b>
40%	Online Homework Assignments
30%	Midterm Exam
30%	Final Exam

*Semester grades will be earned as follows:*

<b>Percentage</b>	<b>Letter Grade</b>
90% and above	A
80 %–89%	B
70 %–79%	C
60%–69 %	D
59.9% and below	F

The average of a series of online homework assignments will be worth 40% of the total grade. All homework due dates are posted in Blackboard. Homework is due by midnight on the due date...no exceptions.

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 (read below):**

**If you are unable to take your Final Exam at NTCC's Testing Center (free), then you must either 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.**

### **Required Instructional Materials:**

**Publisher:** Pearson, Boston, MA

**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:**

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

Note: This is the hard-back copy...you've already purchased the online e-text, but the hard-back is available if you want to buy it.

### **Minimum Technology Requirements:**

Students should have a computer at home that is Internet accessible. It is recommended that students have a graphing calculator. The TI-84 is preferred, but other models may be approved by the instructor. You will be using this calculator for both courses.

\*\*\*Note: You may be able to find a FREE online TI-84 calculator on your laptop or phone. It is OK to use it.

### **Required Computer Literacy Skills:**

Students should have the ability to navigate through a website, use a chat room, post remarks to a

discussion board, and email. They must also be able to navigate Blackboard to access posted materials and online homework assignments.

### **Course Structure and Overview:**

This is a 5-week online summer course where students are required to access graded activities on MyMathLab via the Blackboard Learning Management System. Students are required to complete online homework, and over the course of the semester, a midterm exam and a final exam. It is very important students 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.

### **Course Outline:**

All problems assigned to each section are located in the Homework tab in MyMathLab. Dates for each section are located in your MyMathLab Calendar at the end of this syllabus.

- 1.1 An Introduction to Problem Solving
- 1.2 Polya's Problem-Solving Principles
- 1.3 More Problem-Solving Strategies
- 1.4 Algebra as a Problem-Solving Strategy
- 1.5 Additional Problem-Solving Strategies
- 1.6 Reasoning Mathematically
  
- 2.1 Sets and Operations on Sets
- 2.2 Sets, Counting, and the Whole Numbers
- 2.3 Addition and Subtraction of Whole Numbers
- 2.4 Multiplication and Division of Whole Numbers
  
- 3.2 Algorithms for Adding and Subtracting Whole Numbers
- 3.3 Algorithms for Multiplication and Division of Whole Numbers
- 3.4 Mental Arithmetic and Estimation

### **MIDTERM EXAM - Chapters 1, 2, & 3**

- 4.1 Divisibility of Natural Numbers
- 4.2 Tests for Divisibility
- 4.3 Greatest Common Divisors and Least Common Multiples
  
- 5.1 Representation of Integers
- 5.2 Addition and Subtraction of Integers
- 5.3 Multiplication and Division of Integers
  
- 6.1 The Basic Concepts of Fractions and Rational Numbers
- 6.2 Addition and Subtraction of Fractions
- 6.3 Multiplication and Division of Fractions
  
- 7.1 Decimals and Real Numbers
- 7.2 Computations with Decimals
- 7.3 Proportional Reasoning
- 7.4 Percent

## **FINAL EXAM (Over chapters 4, 5, 6, & 7)**

### **Communications:**

Emails will be responded to within 24 hours. Students are expected to abide by Netiquette rules when communicating online. See this link for details:

**<https://coursedesign.colostate.edu/obj/corerulesnet.html>**.

The college's official means of communication is via your campus email address. Your instructor will use your campus email, TEAMS, and Blackboard to communicate with you (mainly TEAMS texting). You need to check these often throughout the week in case your instructor sends out new information. Also, make sure you keep your campus email cleaned out and below the limit so you can receive important messages.

### **Institutional/Course Policy:**

Since this is an online class, students must be self-motivated to keep up with the due dates, turn in assignments ON TIME, and take Exams as scheduled. Students need to check their email accounts daily AND log in daily to MyMathLab to make sure they receive all communications from the professor.

No late work will be accepted without prior approval by the instructor. It is the student's responsibility to check Blackboard and their NTCC email account for important information/announcements regarding the course. Students should be working on course material via Blackboard and MyMathLab every day. 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 instructor reserves the right to make adjustments to this timeline at any point in the term.**

<u>Assignment Name:</u>	<u>Due</u>	**All work is due by midnight on due date.

		ORIENTATION	Week 1	6/10
		CHAPTER 1 HOMEWORK – Problem Solving	Week 1	6/14
		CHAPTER 2 HOMEWORK - Sets	Week 2	6/17
		CHAPTER 3 HOMEWORK – Add/Sub/Mult/Div Whole Numbers	Week 3	6/21
		REVIEW FOR MIDTERM EXAM	Week 3	6/24
	***	MIDTERM EXAM (chapters 1, 2, & 3)  Exam will open at 8:00 a.m. on 1 <sup>st</sup> day & close at midnight on 2 <sup>nd</sup> day.	Week 3	Open 6/24 to 6/25
		CHAPTER 4 HOMEWORK – Divisibility, GCD, LCM	Week 4	6/28
		CHAPTER 5 HOMEWORK - Integers	Week 4	7/1
		CHAPTER 6 HOMEWORK – Fractions & Rational Numbers	Week 4	7/4
		CHAPTER 7 HOMEWORK – Decimals, Proportions, & Percents	Week 5	7/6
		REVIEW for EXAM #3 (Chapters 6 & 7)	Week 5	7/8
	***	<b><i>FINAL EXAM (Chapters 4, 5, 6 &amp; 7): <u>FINAL EXAM MUST BE PROCTORED</u> (Read above in Syllabus for options).</i></b>	<b>Week 5</b>	Opens at 8 a.m. on 7/8, and closes at 11:59 p.m. on 7/9