



Math 0304 991 – Foundations of Mathematical Reasoning

ONLINE **If it's highlighted, you need to take note!!**

Course Syllabus: Spring 2026

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

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	Online Only	8 am to 9 pm				

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: MATH 0304 surveys a variety of mathematical topics needed to prepare students for a gateway college-level mathematics course. Topics include: numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models. No college credit.

Prerequisite(s): TSI Incomplete Status with Multiple Measures Placement on TSI Placement Chart

Corequisite(s): MATH 0100 if TSI Incomplete Status with Multiple Measures Placement as posted on TSI Placement Chart is required.

Student Learning Outcomes:

0304.1 Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.

0304.2 Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.

0304.3 Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.

0304.4 Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.

0304.5 Use graphs, tables, and technology to analyze, interpret, and compare data sets.

0304.6 Construct and use mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.

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 grade for this course will be based on the following:

- Homework – Each practice assignment will be given a due date, though *it will remain open for one additional week after that due date*. Homework grades will include MyOpenMath homework assignments. These will all average together to count for 35% of your final course grade. Note that homework is completed online through MyOpenMath.
 - Participation – Participation in this online course is considered to be the on-time completion of posted homework assignments. For example, if there are 2 online assignments posted with a common due date and they are all completed by that date, you will receive 10 bonus points as a participation grade for that week. The participation grade will be submitted as bonus points toward your overall homework average. There are a total of 10 weeks for which this participation grade may be received. Receipt of all 10 participation grades will improve your homework average approximately one letter grade or 10 points. This is intended as an incentive to stay on schedule for completion of the course.
- Exams will count as 40% of your final course grade. Three tests will be given this semester. Each student is required to take all unit tests. **Due dates for Unit tests are non-negotiable.** No make up tests are allowed, however the Final Exam grade can replace a missing or low test grade.

- Final Exam – The final exam will be a comprehensive exam and will count as 25% of your final course grade. A comprehensive final exam is mandatory for all students.

The percentage break-down is as follows:

Homework Assignments	35%
Exams	40%
Comprehensive Final	25%

A = 90-100%, B = 80-89%, C = 70-79%, F = 69% or lower

Required Instructional Materials:

- 1) Access to MyOpenMath (Inclusive Access)
- 2) Graphing calculator (TI-84, TI-84 Plus, or similar)
- 3) Writing materials – Pencils, eraser, highlighters

Publisher: Beginning and Intermediate Algebra by Tyler Wallace, Open Source textbook (2010)

Optional Instructional Materials: *Beginning and Intermediate Algebra* textbook, ISBN #978-1-4583-7768-5

Minimum Technology Requirements: Reliable internet access, Graphing calculator (TI-84, TI-84 Plus, IT-84 Plus CE, physical calculator or electronic), Scanner access or phone scanner app

Required Computer Literacy Skills: Basic computer skills to access online resources and information

Course Structure and Overview: This is a 16-week virtual course. A typical class involves general participation by all students in discussions and working problems that involve the analytical skills needed to apply the mathematical and statistical principles taught in MATH 0304. Students are required to complete online homework in addition to quizzes, and over the course of the semester, three exams and a final exam. It is very important for students to attend class and fully participate in the learning activities and assignments. A participation grade will be issued weekly, based on the percentage of *on-time submissions* for the week's assignments.

Communications: Emails will be responded to within 24 hours during the week and 48 hours on the weekend. **The college's official means of communication is via your campus email address. Your instructors will use your campus email 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: **Late work (up to 1 week after due date) is accepted for this course, though the late submission of an assignment will impact the Participation grade for the week. All exams must be completed on time to achieve the desired goals of the course.**

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.

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.

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 Timeline (*note* instructor reserves the right to make adjustments to this timeline at any point in the term):

Course Schedule: (Subject to Change)

<u>Weeks</u>	<u>Topics</u>	<u>Assignments</u>	<u>Due Dates</u> (Due by midnight Central Time)
Week 1	Introductions/General Linear Equations	<ul style="list-style-type: none"> • General Linear Equations • Equations with Decimals and Fractions 	1/25/2026
Week 2	Statistics/Rates/Proportions	<ul style="list-style-type: none"> • Averages • Rates and Unit Rates • Proportions and Applications 	2/1/2026
Week 3	Percents	<ul style="list-style-type: none"> • Intro to Percents • Translate Percents and Appl • Percents as Proportions and Appl 	2/8/2026
Week 4	Polynomials and Scientific Notation	<ul style="list-style-type: none"> • Intro to Polynomials • Scientific Notation 	2/15/2026
Week 5	All topics to this point	Test 1	2/22/2026
Week 6	Algebraic Expressions/Linear Equations/Formulas	<ul style="list-style-type: none"> • Evaluate and Simplify Alg Expr • Solve Linear Equations • Formulas 	3/1/2026
Week 7	Compound Interest/Word Problems with Equations	<ul style="list-style-type: none"> • Compound Interest • Word Problems • Age Problems 	3/8/2026
Week 8	Inequalities/Slope	<ul style="list-style-type: none"> • Inequalities • Slope 	3/15/2026
Week 9:	Equations of Lines/Parallel and Perpendicular slopes	<ul style="list-style-type: none"> • Equations of Lines • Parallel and Perpendicular Lines 	3/29/2026
Week 10:	Operations on Polynomials	<ul style="list-style-type: none"> • +, -, x Polynomials • Polynomial Long Division 	4/5/2026
Week 11:	All topics since Exam 1	Test 2	4/12/2026
Week 12:	Factoring	<ul style="list-style-type: none"> • Factor Common Factors and Grouping • Factor Trinomials 	4/19/2026
Week 13:	Solving Equations (again)/Radicals	<ul style="list-style-type: none"> • Solving Equations by Factoring • Simplify Radicals • +, -, x Radicals 	4/26/2026
Week 14:	All topics since Exam 2	Test 3	5/3/2026
Week 15:	All semester topics	Review for Final Exam	5/13/2026
Week 16:		Final Exam - Required!	5/14/2026