**Co–Requisite for Foundations of Mathematical Reasoning MATH 0100**

**Course Syllabus: Spring 2025**



***“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** |
|  | 8:30-9:2012:00-12:30 |  | 8:30-9:20 |  |  |

***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 0100 will contain essential foundational concepts needed for success in MATH 0304 but not frequently mastered by students who do not exhibit adequate preparation for the following topics: 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):** 1) EDUC 1100 2) MATH 0304

**Student Learning Outcomes:**

0100.1 Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.

0100.2 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.

0100.3 Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.

0100.4 Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.

0100.5 Use graphs, tables, and technology to analyze, interpret, and compare data sets.

0100.6 Construct and use mathematical models in verbal, algebraic, 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 of 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: 50% attendance and 50% participation in class activities. **NOTE:** Fifty participation points will be given for each class day. In order to receive all the points, the in-class activity must be completed to the instructor’s satisfaction. If the activity is not completed in class or if a student is absent, then it must be completed and returned the next class period. If not completed, no points or only partial points will be recorded.

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

**Minimum Technology Requirements:** Scientific or graphing calculator (TI-84, TI-84 Plus, or similar)

**Optional Instructional Materials:** *Path to College Mathematics textbook*, ISBN 0-13-465440-4 Publisher: Pearson (2017)

**Course Structure and Overview:** Because this course follows MATH 0304, it will be a time to review and reinforce what was taught in the preceding course using instruction and worksheets or activities during class. The goal is to help students better understand and practice the concepts presented in MATH 0304. Consider it supplemental instruction.

**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. You may also call or text me on my cell phone; however, do so before 10:00 p.m.

**Institutional/Course Policy:**

* Students are expected to be in class unless attending a school sanctioned event. If that is the case, the student or coach is responsible for notifying the teacher of the absence. In the event of an absence, the student is still responsible for the homework/activity assigned.
* Cell phones should be set to silent and preferably put away in a backpack or purse. The main goal concerning cell phone usage is not to disturb others.

**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[.](http://www.ntcc.edu/index.php?module=Pagesetter&func=viewpub&tid=111&pid=1)

**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.

**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](http://www.ntcc.edu/eagleassist)

**Services provided:**

* Mental Health Counseling
* Classroom Accommodations
* NTCC Care Center Food Pantry
* NTCC Care Center Hygiene Closet
* NTCC Care Center Cook Nook
* Financial Literacy
* Child Care Assistance
* Emergency Aid

Can’t find what you are looking for?  Send us a message at eagleassist@ntcc.edu

Mental Health Counseling Services are available to all NTCC students.

* Visit the following page to get your account activated:

[www.thevirtualcaregroup.com/ntcc](http://www.thevirtualcaregroup.com/ntcc)

**Tentative Course Calendar (\*note\* Instructor reserves the right to make adjustments to this calendar at any point in the term.)**

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| **DATE** | **TOPICS** | **ASSIGNMENTS** | **DUE DATES** |
| Day1Jan 21 | Introductions/Syllabus/Math Assessment |  | 1/21/2025 |
| Day 2Jan 23 | Order of Operations | 1.3 | 1/28/2025 |
| Day 3Jan 28 | Operations on Real Numbers | 1.4 | 1/28/2025 |
| Day 4Jan 30 | Solving Equations and Problem Solving | 2.3, 2.4 | 2/4/2025 |
| Day 5Feb 4 | Percents and Finance | 2.5 | 2/6/2025 |
| Day 6Feb 6 | Ratios and Proportions | Appendix D | 2/11/2025 |
| Day 7Feb 11 | MATH 0304 Review |  | 2/13/2024 |
| Day 8Feb 13 | No class |  |  |
| Day 9Feb 18 | Graphing Linear Equations  | 3.1 | 2/20/2025 |
| Day 10Feb 20 | Intercepts and Slopes  | 3.2 | 2/25/2025 |
| Day 11Feb 25 | Equations of Lines | 3.3 | 2/27/2025 |
| Day 12Feb 27 | Exponents, Scientific Notation and Multiplying Polynomials | 4.1, 4.3, 4.5 | 3/4/2025 |
| Day 13Mar 4 | More Multiplying Polynomials | 4.3, 4.4 | 3/6/2025 |
| Day 14Mar 6 | Factoring Polynomials | 5.1. 5.2, 5.3 | 3/112025 |
| Day 15Mar 11 | MATH 0304 Final Exam Review |  | 3/ 13/2025 |
| Day 16Mar 13 | No Class |  |  |