



# Corequisite for Foundations of Mathematical Reasoning – MATH 0200.001 TR

Course Syllabus: Fall 2020

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

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| Office | Monday     | Tuesday    | Wednesday  | Thursday   | Friday     | Online     |
|--------|------------|------------|------------|------------|------------|------------|
| Hours  | 9am – 5 pm | 9am – 5 pm | 9am – 5 pm | 9am – 5 pm | 9am – 5 pm | 9am – 5 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 0200 will contain essential foundational concepts needed for success in MATH 0404 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 as posted on current TSI Placement Chart

**Corequisite(s):** MATH 0404 / EDUC 1300

## **Student Learning Outcomes:**

0404.1 Develop number sense and the ability to apply concepts of numeracy to investigate and describe quantitative relationships and solve real-world problems in a variety of contexts.

0404.2 Use proportional reasoning to solve problems that require ratios, rates, proportions, and scaling.

0404.3 Transition from specific and numeric reasoning to general and abstract reasoning using the language and structure of algebra to investigate, represent, and solve problems.

0404.4 Understand and critically evaluate statements that appear in the popular media (especially in presenting medical information) involving risk and arguments based on probability.

0404.5 Understand, interpret, and make decisions based on financial information commonly presented to consumers.

0404.6 Understand that quantitative information presented in the media and by other entities can sometimes be useful and sometimes be misleading.

## **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:

Participation 25%

Homework 25%

Exams 25%

Final Exam 25%

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

## **Required Instructional Materials:**

- 1) NMP loose leaf book – Math 0200 Foundations Course

*Foundation of Mathematical Reasoning Student Edition Version 2.0 with Co-Requisite*

*Materials.* Copyrighted 2017. Note: The NTCC Bookstore link is at <https://www.ntccbookstore.com/>

- 2) 3-ring binder for this class only
- 3) Graphing calculator (TI-84, TI-84 Plus, or similar)
- 4) Writing materials – Pencils, eraser, highlighters

**Publisher: UT Dana Center, University of Texas at Austin**

**Optional Instructional Materials: None**

**Minimum Technology Requirements:** Graphing calculator (TI-84, TI-84 Plus, or approval by instructor)

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

**Course Structure and Overview:** This is a 16-week online course that meets parallel to the co-requisite courses, Foundations of Mathematical Reasoning (MATH 0404) and Learning Frameworks (EDUC 1300). Class participation is replicated by the expectation that the student will complete working problems in the Foundations course notebook that involve the analytical skills need to apply the mathematical and statistical principles taught in MATH 0404. Students are required to complete online homework, and over the course of the semester, three exams and a final exam. It is very important students complete the assigned tasks on time 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 will be accepted. However, a participation grade will be issued weekly, based on the percentage of on-time submissions for the week's assignments. All assignments and exams must be completed 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)*

| <b>Weeks</b>                                       | <b>Topics</b>              | <b>Assignments</b>                      | <b>Due Dates</b> |
|--|----------------------------|---|------------------|
| <b>Week 1:</b> 8/24/20 - 8/30/20                   |                            | Syllabus acknowledgement 1A, 1C, 2A, 2B | 8/30             |
| <b>Week 2:</b> 8/31/20 - 9/6/20                    |                            | 2C, 2D, 3A, 3B, 3C, 3D                  | 9/6/20           |
| <b>Week 3:</b> 9/7/20 - 9/13/20                    |                            | 4A, 4B, 4C, 4D                          | 9/13             |
| <b>Week 4:</b> 9/14/20 - 9/20/20                   | <b>Test (lessons 1-4)</b>  | Test 1 5A, 5B                           | 9/20             |
| <b>Week 5:</b> 9/21/20 - 9/27/20                   |                            | 5C, 5D, 6A, 6B                          | 9/27             |
| <b>Week 6:</b> 9/28/20 - 10/4/20                   |                            | 6C, 6D, 7A, 7B                          | 10/4             |
| <b>Week 7:</b> 10/5/20 - 10/11/20                  |                            | 7C, 7D, 8A, 8B                          | 10/11            |
| <b>Week 8:</b> 10/12/20 - 10/18/20                 |                            | 8C, 8D, 9A, 9B, 9C                      | 10/18            |
| <b>Week 9:</b> 10/19/20 - 10/25/20                 | <b>Test (lessons 1-8)</b>  | Test 2 9D, 10A                          | 10/25            |
| <b>Week 10:</b> 10/26/20 - 11/1/20                 |                            | 10B, 10C, 10D, 11A, 11B                 | 11/1             |
| <b>Week 11:</b> 11/2/20 - 11/8/20                  |                            | 11C, 12A, 12B, 12C, 12D                 | 11/8             |
| <b>Week 12:</b> 11/9/20 - 11/15/20                 |                            | 13A, 13B, 13C, 13D                      | 11/15            |
| <b>Week 13:</b> 11/16/20 - 11/22/20                |                            | 14A, 14B, 14C, 14D                      | 11/22            |
| <b>Thanksgiving Break:</b> 11/25/ 2020- 11/27/2020 |                            |   |                  |
| <b>Week 14:</b> 11/22/20 - 11/29/20                | <b>Test (lessons 1-13)</b> | <b>Test 3</b>                           | 11/29            |
| <b>Week 15:</b> 11/30/20 - 12/6/20                 |                            | 15A, 15B, 15C, 15D, 15E                 | 12/6             |
| <b>Final Exams:</b> 12/04/2020 - 12/10/2020        |                            |   |                  |
| <b>Week 16:</b> 12/7/20 - 12/10/20                 |                            | <b>Final Exam</b>                       | 12/10            |
| <b>Fall Graduation:</b> 12/11/2020                 |                            |   |                  |