TECHNICAL MATH 2025-2026

Mr. Brummer
Room: 122

Contact Information:

Email: owen.brummer@lexschools.org
Planning: 4th Period
Phone: 308-324-4691 EXT: 2122

Prerequisites: MAPS score of 225 (Semester 1) or 234 (Semester 2)

Dual Credit with Lexington High School and Math 1020 Technical Math (3 credit hours) will be issued at successful completion by Central Community College.

Daily Materials:

- iPad (to be brought to class every day unless otherwise stated)
- Paper/Notebook
- Pencil and eraser
- Calculator
- A positive mindset

Grade Scales:

Lexington High School

A: 93-97/A+: 98-100 B: 85-89/B+: 90-92 C: 77-81/C+: 82-84 D: 70-73/D+:74-76 F: Below 70

Central Community College

A+: 98-100/A: 90-97 B+: 87-89/B: 80-86 C+: 77-79/C: 70 -76 D+: 67-69/D:60-66 F: Below 60

Work will include online homework, quizzes/interactive reading assignments and exams.
Grades will be divided among the following categories:

Homework – 10%
Quizzes/Interactive Reading Assignments – 15%
Exams - 75%
Semester Exam – 10% of Semester grade

— *1st Semester: Quarter 1 = 45% / Quarter 2 = 45% / 1st Semester Test = 10%*
— *2nd Semester: Quarter 3 = 45% / Quarter 4 = 45% / 2nd Semester Test = 10%*

Homework: Each section within a module has a homework assignment that is required after the reading assignment is completed unless the module pretest or quiz had a score of at least 80%.

Quizzes/Interactive Reading Assignments: Each section within a module starts with an optional quiz. There is only one attempt at each quiz. A score of at least 80% on a quiz will allow a student to move to the next section in the module. If an 80% is not achieved, the student will proceed to the section's interactive reading assignment.

Exams will be given over each Module.

Semester Test will be given each semester. It will cover the content from only that semester. Semester tests cannot be made-up.

Absences: An absent student will have one day plus the number of days missed to turn in homework. A student who misses the day of a test will be required to make up the test the day he/she returns to class. If a student misses the day before the test and the test day, he/she will have the number of days missed to make up the test. Please communicate with me if other arrangements are necessary.

Academic Dishonesty:

Cheating is being dishonest. The person cheating and the person who has supplied the answers to cheat will receive a zero. Keep your eyes on your own tests and quizzes, or you will receive a zero as well.

Class Rules and Expectations:

In order to maintain a smoothly running and efficient classroom where everyone has a chance to succeed, it is expected that you do the following while in class.

- **Respect**: Classmates, teacher, school property and yourself
- **Come Prepared**: Bring the necessary materials to class, and complete homework in a timely manner
- **Engage in Learning:** Share ideas, contribute to discussions, and ask questions!
- **Take Responsibility:** Own your learning, behavior and choices
- **Embrace Mistakes:** View the challenges as learning opportunities
- **Be on Time:** At your desk when the bell rings with materials ready
- No food or drinks other than water
- Scheduling make-up work is YOUR responsibility

(Please return signed to Mr. Brummer)

"I have read the syllabus and thoroughly understand with great detail the expectations, rules, and procedures that are expected of me as a student enrolled in this course. I realize that I am responsible for all rules, regulations, procedures, and course requirements set forth in all classes, the LHS student handbook, the LPS student & parent handbook, and the LHS supplement, and I will be held accountable for the contents of this class and supporting documents."

_____ _____

Student Name (print) Student Signature

Date: _____ Class Period: _____ Grade: _____

"I have read thoroughly the contents of this syllabus and discussed with my child the expectations of him/her in this course."

_____ Date _____

Parent / Guardian Signature

THE NEBRASKA MATH READINESS PROJECT

PERSISTENCE, RETENTION, COMPLETION, SUCCESS

Syllabus: Course Introduction

Title: Nebraska Math Readiness Project Modular Math

Class Begins: August 2025

Class Ends: May 2026

MyLab Math Address:
https://tinyurl.com/NMRP2025

Instructor Name: Owen Brummer

Instructor Email: owen.brummer@lexschools.org

MyLab Math Tech Support: https://support.pearson.com/getsupport/s/
To locate all types of support and frequently asked questions, click on View More underneath the appropriate user.

Chat Support: https://support.pearson.com/getsupport/s/contactsupport
To chat with a Pearson representative for immediate help.

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Syllabus: Course Descriptions

Level I (Algebra Track and Tech Math Track): This course presents basic computational skills for either review or initial mastery by the students. Topics include fractions, decimals, the solutions of ratio, proportion, and percent problems, operations with integers, and basic study skills for mathematics problem-solving and estimation. Topics may also include geometry, measurement, and basic algebraic concepts.

Level II (Algebra Track): This course is for students who need to learn basic and intermediate algebra skills. Topics include positive and negative real numbers, solving linear equations and inequalities, applications of linear equations and inequalities, integer exponents, operations with polynomials, factoring, rational expressions, radicals, and graphing of equations and inequalities.

Level III (Algebra Track): This course is for students who need advanced intermediate algebra skills. Topics include linear equations, functions, absolute values, applications of linear equations and inequalities, operations with polynomials, factoring, rational expressions and equations, complex numbers, and quadratic functions.

Tech Math (Tech Math Track): This course is for students that need Tech Math for a future program of study after high school. Topics include fractions, decimals, solutions of ratio, proportion, and percent problems, unit conversions, basic algebra, plane geometry, solid figures, and basic trigonometry.

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Syllabus: Course Prerequisites

Student Criteria:

1. Scored between 13-18/19 on the ACT Math exam or Pre-ACT Math exam
2. Scored between 225-239/242 on district MAP (NWEA) math
3. Accuplacer scores that would place students into foundations level math courses at the community college
4. Appropriate scores on other district assessments
5. Overall high school GPA of 3.0 or lower
6. Overall high school math GPA between 2.0 and 3.25
7. Teacher recommendation

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Syllabus: Course Objectives

Level I (Algebra Track and Tech Math Track):

1. Perform all operations of mathematics using fractions.
2. Perform all operations of mathematics using decimals.
3. Solve problems that involve ratio and proportion.
4. Understand percent notation and its relationship to decimals and fractions, and solve percent equations and their common applications.
5. Perform operations with integers.

Level II (Algebra Track):

1. Add, subtract, multiply and divide positive and negative real integers.
2. Solve linear equations and linear inequalities.
3. Solve application problems requiring linear equations with one variable.
4. Graph linear equations and write equations of lines.
5. Solve systems of linear equations and inequalities.
6. Solve compound inequalities and absolute value inequalities.
7. Perform operations using integer exponents.
8. Add, subtract, multiply, and divide polynomials.
9. Simplify and rationalize radical expressions.
10. Factor polynomials and solve quadratic equations by factoring.
11. Reduce, multiply, and divide rational expressions.

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Level III (Algebra Track):

1. Graph and write linear equations and linear functions.
2. Perform all operations of mathematics involving functions.
3. Solve absolute value equations and inequalities.
4. Solve systems of linear equations and inequalities.
5. Factor polynomials and solve quadratic equations by factoring.
6. Perform all operations of mathematics involving rational expressions to solve equations.
7. Perform operations using integer exponents and radicals to solve equations.
8. Solve quadratic functions and equations by various methods.

Tech Math (Tech Math Track):

1. Perform all operations of mathematics and solve problems using integers, decimals, exponents, radicals, and fractions.
2. Calculate, convert, and solve problems that involve ratios and proportions.
3. Perform all operations of mathematics with measurement numbers and determine precision, accuracy, and error.
4. Convert units between different measurement systems.
5. Evaluate formulas and literal equations, use scientific notation, and perform algebraic operations to solve equations and word problems.
6. Measure, classify, and use relationships of angles and geometric figures to solve problems.
7. Identify, find surface area and volume, and solve problems involving solid figures.
8. Use trigonometry to convert angle measures, find ratios, and solve right triangle problems.

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Syllabus: Course Structure and Required Materials

The daily class period will consist of students working on their individual study plan to complete the course in one year (for traditional schedule) or one semester (for block schedule). Students have the option of finishing early or progressing faster to complete additional levels within the course.

Required Materials:

• Students need to have strong computer skills.

• Online Textbook: An eBook for this course will be provided to students free of charge.

• Notebook: Students are required to maintain a notebook of their written work for all homework assignments, quizzes, pretests, exams, and assessments.

• Ear buds: Students will need to obtain ear buds for use in the classroom to listen to instructional videos.

• Calculators will be allowed for student use on all activities within certain modules. Refer to your instructor prior to using a calculator.

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Syllabus: Assessment of Student Work

Level Pretest: A pretest will be given at the beginning of each level. There is only one attempt at each level pretest. A score of 80% or higher on a pretest will allow a student to move to the next higher level. If the score of 80% or higher is not achieved, the student will proceed to the current level and take the first pretest in the module. Level pretests have a 90-minute time limit. A student can exit a pretest and finish it later.

Pretest: A pretest will be given at the beginning of each module. There is only one attempt at each pretest. A score of at least 80% on a pretest will allow a student to move to the next module. If an 80% is not achieved, the student will proceed to the quiz, the interactive reading assignment, and the homework. The problems in the homework will be based on the questions not answered correctly in the pretest. Pretests have a 90-minute time limit. A student can exit a pretest and finish it later.

Quizzes: Each section within a module starts with an optional quiz. There is only one attempt at each quiz. A score of at least 80% on a quiz will allow a student to move to the next section in the module. If an 80% is not achieved, the student will proceed to the section's interactive reading assignment.

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Syllabus: Assessment of Student Work

As stated earlier, a student can skip the quiz and start the interactive reading assignment if desired. Quizzes have a 45-minute time limit. A student cannot exit a quiz and finish it later.

Interactive Reading Assignments: Each section within a module has an interactive reading assignment. The reading assignment is required unless the module pretest or quiz had a score of at least 80%. Each reading assignment provides definitions and guided practice to help students learn the section material. As a student progresses through the reading assignment, practice problems will need to be completed. A score of at least 70% on the reading assignment is required to start the homework (unless the quiz was at least 80%). The reading assignments have no time limit. A student can exit a reading assignment and finish it later.

Homework: Each section within a module has a homework assignment. The homework in each section is required after the reading assignment is completed unless the module pretest or quiz had a score of at least 80%. Each question has a Question Help button giving different tutorials to help the student. When a question is completed (either correct or incorrect), the Similar Question button can be clicked to provide a new problem for practice.

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Syllabus: Assessment of Student Work

A score of at least 80% on the homework is required to start the next section (unless the quiz was at least 80%). Homework does not have a time limit. A student can exit homework and finish it later. Click Save when you have completed the assignment or need to stop.

Exams: Each module has an individually administered exam. They are to be closed book exams given within the classroom. Prior to taking an exams, students may take a sample exam to review. A score of at least 80% on an exam is required to start the next module (unless the pretest was at least 80%). If an 80% is not achieved, the student will proceed to the exam's Review For 2nd Attempt homework assignment. The questions in the review assignment are based on the results of the exam. A score of at least 80% on the review assignment is required before getting a second attempt at the exam. If an 80% is not achieved on the second attempt of the exam, the student will have a conference with the instructor to discuss the errors made on the exam before receiving additional attempts. This process continues until the student scores at least 80% on the exam. All exams have a 90-minute time limit. A student can exit an exam and finish it later.

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Syllabus: Assessment of Student Work and Expectations of Students

Comprehensive Assessments: Each level has an individually administered comprehensive assessment. They are to be closed book assessments within the classroom. After the students complete all of modules in a level, they are able to take the assessment. All assessments have a 45-minute time limit. A student can exit an assessment and finish it later.

Attendance: Students are expected to attend class each day so they are able to make progress within the course.

Classroom Behavior: The student will

1. Take notes on the videos and read the eBook material.
2. Participate in class discussions and ask questions.
3. Keep up with the schedule in order to complete the course. This will require working outside of class where computers and internet access is available.
4. Be respectful of other students and the instructor.

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Syllabus: Expectations of Students

When Help is Needed: The student will

1. Contact the instructor as soon as there is a problem.
2. Use the materials in the Multimedia Library in MyLab Math.
3. Work with classmates, friends, tutors, study groups, or instructors. Use all available resources.

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