



MATH 0305.089 Intermediate Algebra

Course Syllabus: Summer II 2018

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

Miles Young

Office: Humanities Building 104

Phone: 903-434-8257

Email: myoung@ntcc.edu

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	8:00 – 6:00	8:00 – 6:00	8:00 – 6:00	8:00 – 6:00	8:00 – 12:00	

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description (include prerequisites): No college credit.

Lecture/Lab/Clinical: Three hours of class each week

Prerequisite: MATH 0303 or TSI placement.

This course develops the properties and operations of the real number system, operations with polynomials and exponents, special products and factor patterns, rational and radical expressions, solutions of linear, rational, radical, and quadratic equations, systems of equations and inequalities, coordinate systems, functions, and graphing.

Prerequisite Knowledge:

This course is designed to provide a capstone overview of the developmental math sequence and continue beyond the concepts listed above. As such, knowledge of the material covered in MATH 0301 and MATH 0303 is essential in being able to master the concepts in this course. A course description for MATH 0301 and 0303 can be found at catalog.ntcc.edu.

Required Textbook(s)/Materials:

No textbook is required; however, you must purchase a MyMathLab access code. If you have previously been enrolled in MyMathLab, you do not have to purchase a new one. You will also need a webcam, a microphone, and speakers if your computer does not have these built-in.

Publisher: Pearson

ISBN Number: 978-0321199911

Student Learning Outcomes:

Upon the successful completion of this course, students will be able to:

1. Recognize, understand and analyze features of a function.
2. Recognize and use algebraic properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate polynomial expressions.
3. Identify and solve absolute value, polynomial, radical, and rational equations.
4. Identify and solve linear inequalities.
5. Model, interpret and justify mathematical ideas and concepts using multiple representations.
6. Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines.

Lectures & Discussions:

- 8.1 Solving Linear Equations
- 8.1 Solving Inequalities
- 8.3 Solving Absolute Value Equations
- 3.2 Graphing Linear Equations in Two Variables
- 3.3 Slope of a Line
- 3.4 Writing and Graphing Equations of Lines
- 3.6 Introduction to Relations and Functions
- 3.7 Function Notation and Linear Equations
- 4.1 Solving Systems of Linear Equations by Graphing
- 4.2 Solving Systems of Linear Equations by Substitution
- 4.3 Solving Systems of Linear Equations by Elimination
- 6.1 Factoring: The Greatest Common Factor
- 6.1 Factoring by Grouping
- 6.2 Review Factoring Trinomials
- 6.4 Factoring Trinomials Using FOIL
- 6.5 Special Factoring Techniques
- 6.7 Solving Quadratic Equations by Factoring
- 7.1 Rational Expressions and Functions: Multiplying and Dividing
- 7.2 Adding and Subtracting Rational Expressions
- 7.3 Complex Fractions
- 7.4 Equations with Rational Expressions
- 9.1 Radical Expressions and Graphs
- 9.2 Rational Exponents
- 9.3 Simplifying Radical Expressions and the Pythagorean Formula
- 9.6 Solving Equations with Radicals
- 10.1 Solving Quadratic Equations by the Square Root Property
- 10.3 Solving Quadratic Equations by the Quadratic Formula
- 10.6 Graphs of Quadratic Functions

Blackboard Collaborate:

This is not a graded assignment, but to better facilitate interactive discussion during the course, there will be a weekly online session, held via Blackboard Collaborate, in which we as a class will discuss issues related to the material and answer any questions you may have. Under the “Start Course Here” link on the left-hand side of the page you will notice a link called “Collaborate”. Once there, you will see links for 5 available sessions in which you must choose 1 to participate. You can participate in all 5 if you wish, but 1 is required. These sessions will not last any longer than an hour usually.

Evaluation/Grading Policy:

All weekly assignments are made available on Monday of each week with everything being due on Sunday. Students may work as fast or as slow as they like provided they meet the overall deadline. The chapter review will have to be completed at 70% before you can attempt the exam. There will be an exam assigned after each chapter and a comprehensive final. Two attempts on the exams (except for the final) will be allowed in order to either improve your score or achieve a passing score.

Grading System

The grading system that will be posted on MyMathLab is chapter exams 50% & homework 50%. Passing a developmental course is considered 70% or better. Each chapter assignment (37 total), and test (5 total) are worth 10 points, which total up to a possible 380 points. The individual chapter assignments each contribute approx. 1.5% to the overall grade, and each test 10%. The breakdown of each grade category is as follows:

A: 380 – 342 points (90% - 100%)

B: 341 – 304 points (80% - 89%)

C: 303 – 266 points (70% - 79%)

D: 265 – 228 points (60% - 69%)

F: 227 points or below (59% - below)

The individual chapter assignments and tests are designed to assess the material covered in the text and in our online discussions. The chapter assignments have an unlimited amount of attempts you can make; however, each test only allows for two total attempts.

All of the items in MyMathLab provide a grade immediately after an assignment or test is completed. If you have a technical issue in the middle of an attempted test, a questions about a grade or a due date, or any other question related to the course you can expect an emailed response within 24 hours of your communication.

NTCC Academic Honesty Statement:

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

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 Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website - Special Populations](#).

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.