



## MATH 0305.086 Intermediate Algebra

Course Syllabus: Spring 2017

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

### Miles Young

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	
	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):** Intermediate algebra is designed to develop the skills and understanding contained in the second year of secondary school algebra. Topics include the properties of the real number system, operations on polynomials, special products, factor patterns, radicals, rational exponents, solutions of linear, quadratic, systems of equations, inequalities, coordinate systems, and graphing. Three hours of class each week. No college credit. Prerequisite: MATH 0303 or its equivalent.

### Required Textbook(s):

No textbook is required; however, you must purchase a MyMathLab access code.

**Publisher:** Pearson

**ISBN Number:** NA

### Recommended Reading(s):

None

### 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
- 9.1 Radical Expressions and Graphs
- 9.2 Rational Exponents
- 9.3 Simplifying Radical Expressions and the Pythagorean Formula
- 9.4 Solving Equations with Radicals
- 10.1 Solving Quadratic Equations by the Square Root Property
- 10.3 Solving Quadratic Equations by the Quadratic Formula
- 10.4 Equations Quadratic in Form
- 10.6 Graphs of Quadratic Functions

**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 25%, final exam 25%. Passing a developmental course is considered 70% or better.

**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 arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

**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.

**Other Course Policies:**

If the TSI Assessment is retaken before the student completes a developmental course, the resulting score will determine placement in subsequent courses. It is the student's responsibility to take the score to the instructor of the class. That instructor will give the student a grade of CR on the final grade sheet, and the student will no longer be required to attend that class for the rest of the semester.