



# NCBM 0103 - Foundations of College Algebra

Course Syllabus Spring 2018

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

## Marguerite Morris

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OFFICE	Monday	Tuesday	Wednesday	Thursday	Friday	Online
HOURS	8:30-12:00, 4:00-5:00	8:30-9:20, 11:00-12:00, 2:30-4:30	8:30-12:00, 4:00-5:00	8:30-9:20, 11:00-12:00, 2:30-4:30	As needed	As needed

*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:** No college credit.

Lecture/Lab/Clinical: Two hours of lecture each week.

This course is designed to allow students whose math TSI assessment score is 347-349 to enroll concurrently in MATH 1314. Course content will parallel the curriculum of college algebra by providing a foundation of intermediate skills.

Note: Instructor approval required.

### **Class Description:**

This course accompanies college algebra and is a study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations.

### **Required Textbook(s):**

No textbook is required

### **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:**

The Product Rule and Power Rules for Exponents

Multiplying Polynomials

Special Products

Integer Exponents and the Quotient Rule

Factoring: Greatest Common Factor

Factoring by Grouping  
Review Factoring Trinomials  
Factoring Trinomials Using FOIL  
Special Factoring Techniques  
Reducing Rational Expressions  
Rational Exponents  
Simplifying Radical Expressions  
Solving Linear Equations  
Solving Absolute Value Equations  
Solving Rational Equations  
Solving Quadratic Equations by Factoring  
Solving Quadratic Equations by the Square Root Property  
Solving Quadratic Equations by the Quadratic Formula  
Graphing Linear Equations in Two Variables  
Slope of a Line  
Equations of Lines  
Introduction to Relations and Functions  
Function Notation and Linear Functions  
Graphs of Quadratic Functions  
Solving Systems of Linear Equations by Graphing  
Solving Systems of Linear Equations by Substitution  
Solving Systems of Linear Equations by Elimination  
Solving Applications Involving Systems of Equations

**Evaluation/Grading Policy:**

Class will meet two days a week for one hour for eight weeks. There will be no homework and no exams. Grades will be based solely on attendance as follows:

15 – 16 days present = A

13 – 14 days present = B

10 – 12 days present = C

Below 12 days = F

**Other Course Requirements:** None

**Student Responsibilities/Expectations:**

Students are expected to conduct themselves in a mature and respectful manner toward the instructor as well as other students. An orderly and cooperative classroom environment is essential for optimum learning to take place. In order to maintain an environment in which learning can take place the following behaviors are expected to be observed:

- Turn off cell phones or set them on silent. This means no texting during class!!!
- Pay attention during instruction. You should not be working on homework, texting, carrying on side conversations with your neighbor. These are really my pet peeves.
- Practice the “Golden Rule.”

**Other Course Policies:**

**RE-TESTING POLICY:** 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.

**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.