



WACO, TEXAS

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**COURSE SYLLABUS  
AND  
INSTRUCTOR PLAN**

**COLLEGE ALGEBRA  
MATH 1314 Section W081**

**TERI BARNES**

**This is a 16-Week Online Course**

SPRING 2026

*"AN EQUAL OPPORTUNITY INSTITUTION"*

**Course Description:**

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Semester Hours (3)

**Prerequisites and/or Corequisites:**

. Prerequisite: None Corequisite: None

**Course Notes and Instructor Recommendations:**

This course has an online component and a good working knowledge of the computer is essential. Online access is needed at a speed that will facilitate streaming video and downloading of materials. This course is geared for the student who is motivated and responsible in dealing with deadlines and scheduling.

**Instructor Information:**

Instructor Name:	Teri Barnes
MCC E-mail:	tbarnes@mclennan.edu
Office Phone Number:	254 299-8880
Office Location:	MATH 210
Office Hours:	To Be Announced

<b>Office Hours:</b>	
<b>Tuesday:</b>	<b>7:00-8:00 am</b> <b>12:00-3:00 pm</b>
<b>Thursday:</b>	<b>7:00-8:00 am</b>

**Required Text & Materials:** ( No Hard Copy Text Required)

**This course is being offered as Inclusive Access—this means you do not purchase a book. The electronic course information is included in tuition payments.**

### **TI 83/84 Graphing Calculator**



**MCC Bookstore Website:** <http://www.mclennan.edu/bookstore/>

### **Methods of Teaching and Learning:**

MyMathLab is the online component that will house the course information. You will access this through Brightspace. Homework and testing will be done online in this environment. Lecture notes, reference materials, and videos are available there as well.

### **Course Objectives and/or Competencies:**

Upon completion of the course, the student will be able to:

- Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
- Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
- Apply graphing techniques.
- Evaluate all roots of higher degree polynomial and rational functions.
- Recognize, solve and apply systems of linear equations using matrices

### **Course Attendance/Participation Guidelines:**

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

Before the 60% point of the semester, a student who is absent for 25% or more of a face-to-face or blended course or who misses 25% or more of assigned work for an online course will be withdrawn from the course with a grade of W. A student may also request to be withdrawn with a grade of W before the 60% point of the semester. After the 60% point of the semester, the

student may request to be withdrawn if the student is passing, or be assigned the final grade earned at the end of the semester after grades have been updated to reflect missing work.

**Course Outline or Schedule:**

	Lecture/Work	Tests
DEC 16	Calculator Unit	
	1.3 Functions and their Representatives 1.4 Types of Functions and their Rates of Change 2.1 Equations of Lines	Calculator Exam
	2.2 Linear Equations 2.4 Piece Wise Functions/Greatest Integer Function 2.5 Absolute Value Functions	Exam Ch 1/2
	3.1 Quadratic Functions and Models 3.2 Quadratic Equations and Problem Solving	
	3.3 Complex Numbers 3.4 Quadratic Inequalities 3.5 Transformations of Graphs	Exam Ch 3
	4.1 Nonlinear Functions and Their Graphs 4.2 Polynomial Functions and Models	
	4.3 Division of Polynomials 4.4 Real Zeros of Polynomials 4.5 Fundamental Theorem of Algebra	
	4.6 Rational Functions and Models 4.7 More Equations and Inequalities 4.8 Radical Equations and Power Functions Chapter 4 Review	Exam Ch. 4
	5.1 Combining Functions 5.2 Inverse Functions	
	5.3 Exponential Functions and Models 5.4 Logarithmic Functions and Models 5.5 Properties of Logarithms 5.6 Exponential and Logarithmic Equations	
	5.7 Constructing Nonlinear Models Review	Exam Ch. 5
	6.3 Systems of Linear Equations in Three Variables 6.5 Properties and Applications of Matrices 6.6 Inverses of Matrices 6.7 Determinants	
	Review	Exam Ch. 6
	Review for Final	Final Exam
JAN 4th	All Work Due by 8 am	

**Course Grading Information:**

1. Homework: There is a homework assignment for each section that is covered during the semester. Since the test questions will be similar to the homework problems they will be a good source of practice for the tests. Homework due dates will be posted online. You can work on homework assignments as many times as you want to improve your grade before the due date. Once the due date passes, your score is frozen. You can still access problems to practice, but you can't improve your score. Your homework average will count as 30% of your total average.
3. Tests: Five/Six tests plus a comprehensive Final. There are no makeup tests or retests. Tests will count as 50% of the final average.

**Before each test is available (online or face to face), all homework assignments must be completed with at least a 70% score for that unit. A score of 0 will be assigned to that test if the student has not met this prerequisite for testing by the indicated due date.**

4. Final Exam: A cumulative final exam is required and cannot be dropped. It will count 20% of the final average.
5. Grading in this course will be based on homework, unit/chapter tests, and a comprehensive final exam according to the following percentages.  
You can check your grades using the "Gradebook" button on the left side of the MathLab component. The standard grading scale applies:

90 – 100 = A    80 – 89 = B    70 – 79 = C    60 – 69 = D    59 and below = F

### **Late Work, Attendance, and Make Up Work Policies:**

Due dates are set for all homework and test dates are scheduled. If students do not make the deadlines, those grades become zero. If a test is missed, the grade is zero. Instructor has the right to make adjustments to this policy under special circumstances.

### **Student Behavioral Expectations**

Students are expected to maintain classroom decorum, that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity.

[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)

(<https://www.mclennan.edu/highlander-guide/policies.html>)

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

**Attendance for this Online Course:**

Please refer to the Highlander Guide for the complete policy. Attendance will be based on participation in the course Sunday to Saturday. You should have activity (homework or test) in the course each week. A report will be run each week (on Sundays) to determine activity in the course. Any week in which no work is logged, will count as an absence. You are allowed four weeks of inactivity, before you can be dropped. You will receive an email when you are on the Inactivity report in any week.