

McLennan
C O M M U N I T Y
COLLEGE

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

COLLEGE ALGEBRA

Math 1314 Section 94

Mark Crenwelge, M.A.

NOTE: This is a 16-week course.

NOTE: This is an Online course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at <https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html> on any changes to these guidelines.

COLLEGE ALGEBRA

M1314.94

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. Problem solving with algebraic applications relevant to today's world is emphasized. Graphing calculator required.

Prerequisites and/or Corequisites:

Prerequisite: TSI Math complete or MATH 0311. Semester Hours 3 (3 lec).

Instructor Information:

Instructor Name:	Mark Crenwelge, M.A.
MCC E-mail:	mcrenwelge@mclennan.edu
Office Phone Number:	254-299-8874
Office Location:	WF 115
Office/Teacher Conference Hours:	Posted in Brightspace under Contact
Other Instruction Information:	Email is the best way to communicate with me.

Required Text & Materials:

This class is an Inclusive Access (IA) class. The MyMathLab program will be included in tuition and will be located in the Brightspace shell for the class.

Calculator: Required	TI-83, 83Plus, 84, or 84Plus Options discussed in introductory ZOOM.
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MCC Bookstore Website: <http://www.mclennan.edu/bookstore/>

Methods of Teaching and Learning:

There will be orientation and announcement videos posted in Brightspace as well as the Syllabus and Schedule for the class. Announcements and email will be used to communicate during the semester.

MyMathLab is the online component that will house the course information. MyMathLab will be accessible through a link in the Brightspace class. All assignments and tests will be done online in this environment. Lecture notes, reference materials, and instructional videos may be available there as well.

ZOOM times will be available and can be scheduled if needed to talk about problems and ask questions. See the Contact information in Brightspace.

ZOOM ID is 254 299 8874

Course Objectives and/or Competencies:

Upon successful completion of the course, students will:

- 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
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- **Critical Thinking**: Students use inductive and deductive reasoning, explore problems using logical process of inquiry, analysis evaluation and synthesis. Assessment will use discussion, independent practice, collaborative experience, instructional technology. (Use of departmental test bank and CAAP test.)
 - **Communications**: Students turn in written assignment involving topics related to College Algebra or other mathematics. They then share their result with their instructor and/or colleagues in class via written, oral, and/or visual methods. Assessment will use at least one of the following: board work, class time explanation, case study presentation, poster board presentation, or small group presentation. Evaluation process will use departmental rubric for communication assessment.
 - **Empirical/Quantitative**: Students work on various mathematical problem solving skills throughout the course. The course focuses on the manipulation and analysis of numerical data or observable facts as

COLLEGE ALGEBRA

M1314.94

presented in application problems and/or problem skill sets in which students demonstrate their ability to reach informed conclusions using mathematical process. Assessment will include discussion, independent practice, collaborative experience, or instructional technology to include questions from a departmental test bank and the CAAP test

Course Outline or Schedule:

Changes to schedule will be announced in email.

Dates	Lecture/Work	Tests/Objectives
Week 1	1.3 Functions and their Representations 1.4 Types of Functions and Their Rates of Change 2.1 Equations of Lines 2.2 Linear Equations	
Week 2	2.3 Linear Inequalities 2.4 More Modeling with Functions 2.5 Absolute Value Equations and Inequalities	
Week 3	REVIEW (Ch. 1 & 2)	Test 1 Ch. 1 & 2
Week 4	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 Graph	
Week 5	REVIEW (Ch. 3)	Test 2 Ch. 3
Week 6	4.1 More Nonlinear Functions and Their Graphs 4.2 Polynomial Functions and Models 4.3 Division of Polynomials 4.4 Real Zeros of Polynomials	
Week 7	4.5 The Fundamental Theorem of Algebra 4.6 Rational Functions and Models 4.7 More Equations and Inequalities 4.8 Radical Equations and Power Functions	
Week 8	REVIEW (Ch. 4)	Test 3 Ch. 4
Week 9	5.1 Combining Functions 5.2 Inverse Functions and Their Representations 5.3 Exponential Functions and Models 5.4 Logarithmic Functions and Models	
Week 10	5.5 Properties of Logarithms 5.6 Exponential and Logarithmic Equations and Inequalities 5.7 Constructing Nonlinear Models	
Week 11	REVIEW (Ch. 5)	Test 4 Ch. 5

COLLEGE ALGEBRA

M1314.94

Week 12	6.1 Functions and Systems of Equations in Two Variables 6.2 Systems of Inequalities in Two Variables 6.3 Systems of Linear Equations in Three Variables 6.4 Solutions to Linear Systems Using Matrices	
Week 13	6.5 Properties and Applications of Matrices 6.6 Inverses of Matrices 6.7 Determinants	
Week 14	REVIEW (Ch. 6) & Communication Assignment	Test 5 Ch. 6
Week 15	Review for Final	
Week 16		FINAL EXAM

Course Grading Information:

Your course grade will be based on Assignments (including homework, classwork, any projects and quizzes), Chapter Tests, and a Cumulative Final Exam.

The relative weights of each of these factors is as follows:

Assignments (Homework online using MyMathLab)	40%
Tests	40%
Final Exam	20%

Assignments- Assignments will include Online Homework problems on MyMathLab, any Quizzes given, and any Projects or Group assignments that are given. These will count for 40% of the final grade.

Success in this class depends on keeping up with the assignments. Learning is directly correlated to the amount of practice completed on the topics we cover. Homework problems will be assigned and worked online using MyMathLab. The deadline for each set of homework will be the scheduled time of the test over the sections covered by the homework. After the due date the problems can still be completed but there will be a 10% penalty for late work.

Tests- Generally, there will be a test after each chapter. If you must miss one test for one of the reasons given in MCC's General Catalog, and you have provided a documented excuse for doing so, the Final exam will also count as your make-up test for that chapter. If it is necessary for you to miss more than one test, you should discuss the situation with me. Unexcused absences from tests will not be made up. I reserve the right to make changes in extreme circumstances. The Test average will count as 40% of the final grade.

Final- The final exam will be cumulative. It is scheduled to be completed by **May 2, 2023**. Please plan accordingly. Your grade on the final may also count in place of your one lowest test grade, if that is to your advantage. The Final exam will count as 20% of the final grade.

The letter grade received in this course will be based on the customary 90-80-70-60 scale.

This course will use a variety of internal and external assessments. A faculty developed comprehensive final exam may assess the core objectives of critical thinking and empirical/quantitative analysis. These core objectives may also be assessed using parts of a standardized test (CAAP). A faculty designed rubric will be used to assess communication skills as well. Review of such items such as GPA, retention levels, and success in following the course may be used to evaluate the effectiveness of student learning.

Late Work, Attendance, and Make Up Work Policies:

Due dates for assignments will be clearly communicated and extensions not given (with the exception of the 10% penalty on Homework assignments). It is my policy to replace a student's lowest test grade with their final exam grade, if it is higher, at the end of the semester. For this reason, **I do not give makeup tests**. A missed test will be recorded as a 0 and then replaced with the final exam at the end of the semester. If a student is aware of a conflict on a test date, they may ask to arrange to take the test early. I reserve the right to make changes in extreme circumstances.

If you are absent from 25% (4 weeks) of the scheduled class work by the deadline for student initiated drops, you will be dropped from the class. If this limit is reached after that date, you will be kept on the roll, and the grade that you earn for the semester is the grade you will receive.

Attendance will be recorded each week. An absence will occur whenever there is no work done in that week. I will check progress each week and record attendance in the Brightspace attendance records.

Make attendance a priority. If absence is unavoidable, **YOU** are still responsible for completing assignments. Attendance (participation) is very important in this class and many students find that missing puts them at a distinct disadvantage. If you miss a week and get behind, it is easy to get discouraged and give up. When you are actively participating and completing

assignments, you have the opportunity to ask questions and get help immediately.

Student Behavioral Expectations or Conduct Policy:

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

In this class it is expected that students will participate in assignments and follow rules of online etiquette, keep up with assignments and deadlines, and be respectful of others in the class.

[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.

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ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit www.mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu 254-299-
8122
Room 319, Student Services Center

Title IX:

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the acting Title IX Coordinator at titleix@mclennan.edu or by calling, Dr. Claudette Jackson, (Diversity, Equity & Inclusion/Title IX) at (254) 299-8465. MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>.

Go to McLennan's Title IX webpage at www.mclennan.edu/titleix/. It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the

crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom from 7:30 am - 6:00 pm Monday through Thursday and 7:30 am - 5:00 pm on Friday. You can contact the Academic Support and Tutoring team via Zoom (<https://mclennan.zoom.us/j/2542998500>) or email (ast@mclennan.edu) during the above mentioned times.

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact either MCC CREW – Campus Resources Education Web by calling (254) 299-8561 or by emailing crew@mclennan.edu or a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Both are located in the Completion Center located on the second floor of the Student Services Center (SSC) which is open Monday-Friday from 8 a.m.-5 p.m.

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to https://mclennan.co1.qualtrics.com/jfe/form/SV_07byXd7eB8iTqJg. Both the Completion Center and Paulanne's Pantry are located on the second floor of the Student Services Center (SSC).

MCC Foundation Emergency Grant Fund:

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf.

MCC Academic Integrity Statement:

Go to www.mclennan.edu/academic-integrity for information about academic integrity, dishonesty, and cheating.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-andStaffCommons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails. For more information about your student email account, go to www.mclennan.edu/studentemail.

Instructional Uses of Email:

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- [Email Setup for iPhones and iPads](#)
- [Email Setup for Androids](#)

Forwarding Emails:

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

For more helpful information about technology at MCC, go to [MCC's Tech Support Cheat Sheet](#) or email helpdesk@mclennan.edu.

Disclaimer:

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.