McLENNAN COMMUNITY COLLEGE

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

COLLEGE ALGEBRA

MATH-1314-O085-Online

Dr. Yumei Wu

NOTE: This is a 16-week Online Course

Fall & 2023

Greetings College Algebra Students! On the next pages you will find the syllabus. Please read it carefully. <mark>You must complete the steps below by 4:00pm Aug.20, 202</mark>3

Step	Action
1.	Insure that you correspond with me using your MCC email address. Any trouble to access, please contact MCC tech support 254-299-9077 or helpdesk@mclennan.edu
2.	Login in www.mclennan.edu, access https://brightspace.mclennan.edu/d2l/login, select your course, get familiar with the links listed on the top, such as announcements, content, Discussion, more.
2.	Find To-Dos in Announcement weekly, access Content, where you shall visit and work all the time for homework, grades, quizzes, videos, and more. Discussion, you work on the signed discussion. Classlist, where to find your classmates. Assessment, and more.
3.	Send an email from your mcc email to my email address ywu@mclennan.edu with the following: Subject: your name & 1314-O085 1. Watched the orientation video in the announcement in https://brightspace.mclennan.edu/d2l/login . 2. Introduced yourself on the discussion tab. 3. Understand the due dates do not mean you should start the assignments on that day but complete them by then. 4. Understand the build in opportunities for managing your grade-such as taking the unit tests twice, working homework problems as much as needed until you make 100%, but you must complete up to at least 70% the assignment in order to access the next assignment. 5. Know you will use the Zoom program to complete your video conference and that this require WiFi access and a computer with camera and mic or a smart phone or tablet or a campus visit. 6. Completed the Online Orientation found in Brightspace-Content-MyLab Math-MyLab Math All Assignments, where all your homework locates. 7. Zoom meeting ID: 2542998809 8. Begun Lesson by clicking on the Lesson tab in https://brightspace.mclennan.edu/d2l/login

<u>Course Description</u>:
In-depth study and application of linear, polynomial, rational, radical, exponential, and logarithmic functions, and systems of equations using matrices. Semester Hours 3 (3 Lecture) and Graphing Calculator Required.

<u>Prerequisites and/or Corequisites</u>:
Math 0311 or consent of division chair.

<u>Course Notes and Instructor Recommendations:</u>
The course Math 1314-91 is an Online format. I post To-Dos each Sunday morning to inform you the activities for the coming week. To-Dos goes to you via email and also stays in Announcement in Brightspace for the whole semester. Videos are posted in Content-Brightspace weekly and PowerPoint, Class via Zoom notes and lecture videos will be available in https://brightspace.mclennan.edu/d2l/login to assist student success. Online homework assignments, Quizzes & Tests will be located at www.pearsonmylab.com through https://brightspace.mclennan.edu/d2l/login and as well as Discussions, videos and ancillaries will be located in Content in https://brightspace.mclennan.edu/d2l/login . There are reviews for tests and numerous other learning aids available also in Content, such as, PowerPoint slides for each section, e-book, formulas, and some tips for graphing calculator will be located at Content https://brightspace.mclennan.edu/d2l/login. I shall constantly, at lease weekly keep you informed through Announcement with the To-Dos list in https://brightspace.mclennan.edu/d2l/login . The most important thing you must do is to check your Announcement every Sunday: To-Dos list is posted and guides you what to do in the week. You do need to arrange your time based on the To-Dos List to complete the week task. So there is no way you would miss the work.

<u>Instructor Information:</u>
Instructor Name: Yumei Wu
MCC E-mail: ywu@mclennan.edu
Office telephone number: 254-299-8809, Cell Phone 254-366-7857
Office Location: Mathematics Building, Math212
Office/Teacher Conference Hours via Zoom: Monday & Wednesday 2:00pm-3:30pm.
Office/Teacher Conference Hours location: your computer, smart phone via zoom.
Other Instruction Information: Other hours are available by appointment (sending me an e-mail to make the suitable time both for you and me)

Zoom meeting ID: 2542998809

https://mclennan.zoom.us/j/2542998809   or
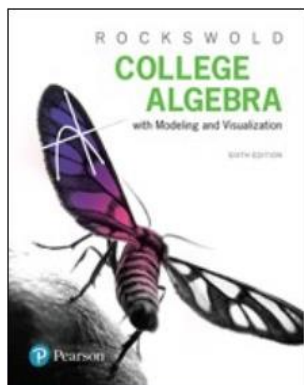
click here to join me in the meeting

Required Text & Materials: (once you register in Brightspace, you shall have the material and you shall download the graphic calculator by using the link provided in Content in Brightspace)

Title: COLLEGE ALGEBRA WITH MODELING & VISULAIZATION,
Author: Rockswold
Edition: 6th edition
Publisher: Pearson

TI 83/84 Graphing Calculator Required

MCC Bookstore Website: http://www.mclennan.edu/bookstore/

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's Brightspace learning management system.

Methods of Teaching and Learning:
The following methods for teaching and learning will be used: A three-pronged approach is used in this course. For each instructional week, a blank lecture notes or PowerPoint, complete lecture notes and video recording of the lecture notes worked will all be available in https://brightspace.mclennan.edu/d2l/login . The conferences of meeting for office hours are used to complete the discussion. Students will be instructed on how to use the zoom program from their smart phone, tablet, computer with camera/mic, or on campus using the technology equipment available for student use at MCC.

Students will be required to read section or chapter and to watch the weekly videos from https://brightspace.mclennan.edu/d2l/login for further review and learning enhancement prior to the homework. All students will be required to submit homework on MyMathLab (must score at

least 70% to receive credit). To access the next section homework, you must complete the present section homework up to at least 70%. All homework is due on 12/03/2023, at 11:59pm. To work on the quiz, you must complete the homework of the chapter up to at least 70%. And Quiz lasts for three days. Reviews are provided for exams; they are not optional and they are graded as a homework. Tests last for three days and Final test is only on 12/4/2023 from 8am to 11:30pm. There is no extra credit. Active participation in the course (asking questions, answering questions based on reading and lecture through internet) leads to improved test scores, rendering extra credit unnecessary.

<u>Course Objectives and/or Competencies</u>:

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

1. State the definition of a function, determine domain/range of a function, evaluate expressions involving function notation, state the definition of inverse functions, find the inverse of a given function, and find composites of functions.

2. Graph the following functions: linear, quadratic, piecewise-defined, absolute value, polynomial, rational, exponential, and logarithmic.

3. Recognize and use transformations of functions such as shifting, stretching, shrinking, and reflecting.

4. Solve quadratic equations in one variable by factoring, using the square root property, completing the square, using the quadratic formula, and by graphing.

5. Solve both linear and non-linear inequalities and state the solution in interval notation.

6. Find the zeros and extrema of polynomials both algebraically and by graphing.

7. Solve exponential and logarithmic equations.

8. Perform operations with matrices, find determinants of matrices, and use matrices to solve systems of equations.

9. Interpret mathematical models such as formulas, graphs, and tables, and draw inferences from them.

10. Use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results, such as deriving functions which model sets of data.

11. Use critical thinking and problem-solving techniques to solve real-world application problems.

STUDENT LEARNING OUTCOMES: GEN ED/MATHEMATICS

1 To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations

2 To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.

3 To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.

4 To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.

5 To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.

6 To recognize the limitations of mathematical and statistical models.

7 To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines

8 Reading at the college level means the ability to analyze and interpret a variety of printed materials -- books, articles, and documents. A core curriculum should offer students the opportunity to master both general methods of analyzing printed materials and specific methods for analyzing the subject matter of individual disciplines.

9 Critical thinking embraces methods for applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies. Problem solving is one of the applications of critical thinking, used to address an identified task.

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, the census day is 9/6/23. 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, which is 10/23/2023, 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:

Dates	Lecture/Work	Objectives/Tests
Week #1	Introduction to course requirements (Enroll into Brightspace)	Obj: 1, 2, 9
	Sec 1.1 Numbers, Data, and Problem Solving	

	Sec 1.2 Visualizing and Graphing data	
Week #2	Sec 1. 3 Functions and Their Representations Sec 1.4 types of Functions and their Rates of Change	Obj: 1,2,9
Week #3	Sec 2.1 Equations of Lines	Obj: 1, 2, 9
	Sec 2.2 Linear Equations	
	Sec 2.3 Linear Inequalities	
Week #4		Obj: 1, 2, 9
	Sec 2.4 Piece Wise Functions/Greatest Integer function	
	Sec 2.5 Absolute Value Functions	
Week #5	**Exam 1 over Chapter 1 & 2**	Obj: 1, 2, 3, 4
	Sec 3.1 Quadratic Functions and Models	
Week #6	Sec 3.2 Quadratic Equations and Problem Solving	Obj: 1, 2, 3, 4
	Sec 3.3 Complex Numbers	
Week #7	Sec 3.3 Complex Numbers	Obj: 1, 2, 3, 4
	Sec 3.4 Quadratic Inequalities	
Week #8	Sec 3.5 Transformations of Graphs	Obj: 1, 2, 5, 6, 9, 10
	Exam 2 over Chapter 3	
	Sec 4.1 Nonlinear Functions and Their Graphs	
	Sec 4.2 Polynomial functions and Models	
Week #9	Sec 4.3 Division of Polynomials	
	Sec 4.4 Real Zeros of Polynomials	
Week #10	Sec 4.5 Fundamental Theorem of Algebra	Obj: 1, 2, 5, 6, 9, 10
	Sec 4.6 Rational Functions and Models	
	Sec 4.7 More Equations and Inequalities	
	Exam 3 over Chapter 4	
Week #11	Sec 5.1 Combining Functions	Obj: 1, 2, 3, 5, 6, 9, 10
	Sec 5.2 Inverse Functions	
	Sec 5.3 Exponential Functions and Models	
	Sec 5.4 Logarithmic Functions and Models	
Week #12	Sec 5.5 Property of Logarithmic Functions	Obj: 1, 2, 3, 5, 6, 9, 10
	Sec 5.6 Exponential and Logarithmic Equations	
	Sec 6.1 Functions and Systems of Equations in Two Variables	
Week #13	Sec 6.2 Systems of Inequalities in Two Variables	Obj: 1, 2, 3, 5, 6, 9, 10
	Sec 6.3 Systems of Linear Equations in Three Variables	
	Sec 6.3 Systems of Linear Equations in Three Variables	
	Sec 6.4 Solutions to Linear Systems Using Matrices	
	Sec 6.5 Properties and Applications of Matrices	
Week #14	Sec 6.6 Inverses of Matrices	Obj: 1, 2, 3, 5, 6, 9, 10
	Sec 6.7 Determinants	
Week #15	**Review for Exam 4 and review for the final test**	
	Exam 4 over Chapters 5 & 6	
Week #16	***FINAL Test, 12/4/2023, 8am-11:30pm***	

Course Grading Information:

For Math 1314, our grading is the following: Homework 25%, Quizzes 15%, Discussion 3%, Three Major Tests and Final Test 57%. Total is 100%.
  A: +90, B: 80-89, C: 70-79,   D: 60-69,   F: 59 or less
Having someone else do your online homework assignment and cheating on a test are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action.

Late Work and Make Up Work Policies:

Due dates for online homework, quizzes and tests will be clearly communicated. Especially the time for Quiz and Test is announced in Weekly announcement. Quiz and test will last for three days, and No makeup tests are given. A missed test will be recorded as a 0 and the lowest test grade will be dropped at the end of the semester. If a student is aware of a future absence on a test date, they may ask to arrange to take the test early. Not after the test!! By the end of the semester, three lowest homework grades and one lowest quiz grades shall be dropped.
Attendance is taken weekly by the **online submission of homework, participation in discussion boards** and **completion of online tests by the due dates** shown on the assignment sheet. You are absent if you have no activity in that week in Brightspace. If you miss more than 25% combined week activities, or if you have not been active more than accumulated 4 weeks, you may be dropped from the course.

Student Behavioral Expectations or Conduct Policy:

Students should demonstrate an attitude that seeks to take full advantage of the education opportunity. For more details of College Conduct Policy, see the Highlander Student Guide
The final exam is virtually proctored with Prof. Wu at the times specified on the assignment sheet. Having someone else do your online homework assignment and tests are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action. Students should keep careful notes of all work done in class and have them available for the instructor's review when requested.

Click Here for the MCC Attendance/Absences Policy
(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.

MᶜLENNAN COMMUNITY COLLEGE

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 2542998122   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, (Accommodations/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. You can contact the Academic Support and Tutoring team via Zoom or email (ast@mclennan.edu) by going to our website (https://www.mclennan.edu/academic-support-and-tutoring/).

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. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

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

Go to https://www.mclennan.edu/center-for-teachingandlearning/FacultyandStaffCommons/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.