



COURSE SYLLABUS

AND

INSTRUCTOR PLAN

COLLEGE ALGEBRA

MATH - 1314 – 10

11:10am-12:30pm MW, Math227

Yumei Wu

NOTE: This is a 16-week F2F 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
Math 1314-10

Greetings College Algebra Students! On the next pages you will find the syllabus.
Please read it carefully. Try to complete the below by 4:00pm Monday January 10, 2022

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	<p>Send an email from your mcc email to my email address ywu@mclennan.edu with the following: Subject: 1314-10 (always with this subject during the whole semester)</p> <ol style="list-style-type: none">1. Watched the orientation video in the announcement in https://brightspace.mclennan.edu/d2l/login .2. Introduced yourself on the discussion tab.3. Understand that 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 chapter quiz 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: 25429988098. Begun Lesson by clicking on the Lesson tab in https://brightspace.mclennan.edu/d2l/login

Course Description:

In-depth study and application 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 (3 Lectures) and Graphing Calculator Required.

Prerequisites and/or Corequisites:

Math 0311 or consent of division chair.

Course Notes and Instructor Recommendations:

The course Math 1314-10 in F2F format involves lectures and activities in the classroom, zoom office hours meetings as well as mandatory online Discussions. My Videos are done and posted in Brightspace before the lecture. PowerPoint and lecture videos will be available in <https://brightspace.mclennan.edu/d2l/login> to assist student success. Online homework assignments will be located at <https://brightspace.mclennan.edu/d2l/login> and as well as videos, lecture notes, formulas, reviews for tests and ancillaries will be located in Content in <https://brightspace.mclennan.edu/d2l/login>. There are numerous other learning aids available also in Content, such as, PowerPoint slides for each section, e-book, and some important tips for using graphing calculator will be located at Content <https://brightspace.mclennan.edu/d2l/login>. I shall constantly keep you informed through Announcement in <https://brightspace.mclennan.edu/d2l/login> and pay attention to weekly To-Dos posted each Sunday.

Instructor Information:

Instructor Name: Yumei Wu

MCC E-mail: ywu@mclennan.edu

Office telephone number: 254-299-8809

Office Location: Mathematics Building, Math212

Office/Teacher Conference Hours via Zoom: Monday & Wednesday 2:00pm-4:00pm.

Office/Teacher Conference Hours location: your computer, smart phone or tablet 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](#)

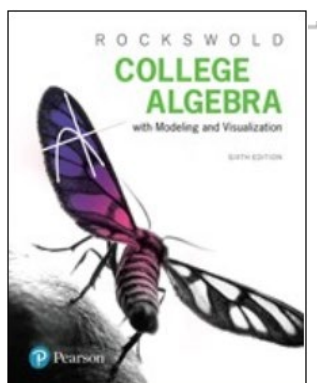
Required Text & Materials:

Title: COLLEGE ALGEBRA WITH MODELING & VISUALIZATION

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 <https://brightspace.mclennan.edu/d2l/login> learning management system.

Methods of Teaching and Learning:

The following methods for teaching and learning will be used: F2F lecture every Monday and Wednesday, you shall have online homework and quizzes, your three major exams will be in the classroom, you will be informed ahead. A three pronged approaches are used in this course. For each instructional unit a blank lecture notes or PowerPoint, complete lecture notes and video recording of the lecture notes worked will all be available on the website companion to this class in <https://brightspace.mclennan.edu/d2l/login>. 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 each section or chapter before and after the lecture and to view 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 be able to continue the approximate section). Reviews are provided for exams, they are assignments like the homework. 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.

This semester, our class shall have one Supplemental Instructor (SI) who is helping you beside of the classroom. The schedule shall be ready when the semester starts.

Course Objectives and/or Competencies:

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.

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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 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	Sec 2.4 Piece Wise Functions/Greatest Integer function	Obj: 1, 2, 9
	Sec 2.5 Absolute Value Functions	
Week #5	Exam I over Chapter 1 & 2 & (Review)	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
	Sec 4.1 Nonlinear Functions and Their Graphs	
	Sec 4.2 Polynomial functions and Models	

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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 II over Chapters 3 & 4 & (Review)	
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	
Week #14	Sec 6.5 Properties and Applications of Matrices	Obj: 1, 2, 3, 5, 6, 9, 10
	Sec 6.6 Inverses of Matrices	
	Sec 6.7 Determinants	
Week #15	Review for all the chapters	
	Exam III over Chapters 5 & 6 & (Review)	
Week #16	FINAL EXAM Monday, Dec 6th, 2021, 11:10AM-01:10PM	

Course Grading Information:

For Math 1314, our grading scale is the following: Homework 25%, Quizzes 15%, Discussion 3%, Tests (Three major tests and the Final test) 57%. Total of all the grades 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, Attendance, and Make Up Work Policies:

Due dates for online homework will be clearly communicated. They all are due on May 1st, 11:59pm. But you must complete at least up to 70% of the section in order to access the next section. Otherwise it is locked to you. Each Quiz lasts for a day and is announced a week

earlier and is locked until you complete the chapter homework up to 70%. For each two chapters you have one test, so totally three major tests. There is no makeup test. A missed test will be recorded as a 0 and will be dropped by 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. Attendance is taken in the classroom each class meeting. If you miss more than 25% of the total attendance, you are dropped from the class.

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor. 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.

Having someone else do your online homework assignment and quizzes 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 Academic Integrity Statement](http://www.mclennan.edu/academic-integrity)
(www.mclennan.edu/academic-integrity)

The link above will provide you with information about academic integrity, dishonesty, and cheating.

* [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. Regular and punctual attendance is expected of all students, and each instructor will maintain a complete record of attendance for the entire length of each course, including online and hybrid courses. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades. In the case of online and hybrid courses, attendance will be determined in terms of participation, as described in the course syllabus.

McLennan

C O M M U N I T Y

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

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 Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC 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/>

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 a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and 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-and-Staff-Commons/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.

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.

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.

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.