



Math 1314.115H2
College Algebra
Spring 2025
TTH 9:30 am – 12:20 pm

Instructor Information: Carol Switoyus
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(409)933-8220

Student hours and location: MW 8:15 am – 9:15 am, 11:00 am -12:00 pm
TTH 4:00 pm – 5:00 pm
F 8:15 am – 8:45 am; 10:00 am – 11:00 am
All student/office hours are located in STEAM #325-17

Required Textbook/Materials: College Algebra, 5th edition by Beecher, Penna, Bittinger, from Pearson. E-Book via MyMathLab in Brightspace - D2L (**No Purchase Necessary**). We will be using MyMathLab for all assignments and some assessments.

Course Description: College Algebra is an in-depth study and applications of polynomial, rational, exponential, and logarithmic functions, and systems of equations using matrices.

Course requirements: This is a hybrid class. You will be required to learn some of the material outside of class with the aid of videos, which I will provide.

HW: There will be a homework assignment for each section covered, whether in-class or outside of class, to be done online using MyMathLab.

Quizzes: There are four quizzes to be done online using MyMathlab. You can retake each quiz just once to improve your score; the higher score will be the one that counts. There may also be occasional in-class quizzes. In-class quizzes cannot be made-up or retaken.

Exams: There will be four chapter-exams and a comprehensive final. At least one of the chapter exams will be online. You are expected to show your work and for the on-line test(s) and to turn it in during the next class period. Late work will not be accepted. The penalty for no work shown is 20% per problem. **There are no retakes on any of the exams. All due dates are on the course outline.**

Determination of Course Grade/Detailed Grading Formula: Your course grade will be determined by the following formula: $10\% \text{ HWAvg} + 10\% \text{ QZ Avg} + 60\% \text{ EX Avg} + 20\% \text{ Final EX} = \text{Final Avg}$

Grading Scale:

Grade A: Final Average in [89.5, 100]
Grade B: Final Average in [79.5, 89.5)
Grade C: Final Average in [69.5, 79.5)
Grade D: Final Average in [59.5, 69.5)
Grade F: Final Average in [0, 59.5)

Late Work, Make-Up, and Extra-Credit Policy: Late homework and quizzes may be submitted, but there is a 20% grade penalty on late assignments. Tests must be taken on days scheduled unless there is a **justifiable** reason not to, and you notify me in advance of any issues. **There is no extra credit.**

Attendance Policy: Attendance and participation are required. Although attendance and participation are not calculated as part of your final average, failure to attend and participate will ultimately affect your grade adversely. Students who are not present and engaged are not learning.

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. I will also be sending out information to your COM email address, please be sure to check it regularly.

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions and inverses.	Critical Thinking Skills (CT)	Exam 1
2. Recognize and apply polynomial, rational, exponential and logarithmic functions and solve related equations.	Critical Thinking Skills (CT)	Exam 2, 3
3. Apply Graphing Techniques	Visual Communication Skills (CS)	Exam 2, 3
4. Evaluate all roots (zeros) of higher degree polynomials and rational functions.	Critical Thinking Skills (CT)	Exam 2
5. Recognize, solve and apply systems of linear equations using matrices.	Empirical and Quantitative Skills (EQS)	Exam 4

Academic Dishonesty College of the Mainland is committed to a high standard of academic integrity. All students are responsible for honesty and independent effort. Incidents of academic and scholastic dishonesty (including cheating, plagiarism, and collusion) will be dealt with in a manner that is consistent with College Policy and the Student Handbook. Any student found to have been academically dishonest on an assignment, quiz or exam will receive a zero for that assignment, quiz or exam and he or she will be referred to the Office of Student Conduct for further disciplinary action. Please read the sections on *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook.)

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Leslie Richardson, Mathematics Dept. Chair at lrichardson@com.edu.

Course outline:

Wk	Date	Topic	Section
1	Mar 10-14	Introduction to Graphing	1.1
		Functions and Graphs	1.2
		Linear Functions, Slopes, Applications	1.3
		Equations of Lines and Modeling	1.4
		Linear Equations, Functions, Zeros, and Applications (OL)	1.5
		HW 1.1 -1.5 due 3/23	
		Quiz 1: 1.1 - 1.5 due 3/23	
***** Spring Break Mar 15-23 *****			
2	Mar 24-28	Increasing, Decreasing and Piecewise Functions (OL)	2.1
		The Algebra of Functions	2.2
		The Composition of Functions	2.3
		Transformations	2.5
		Review for Exam 1	
		HW 2.1-2.3, 2.5 due 3/30	
3	Mar 31-Apr 4	Exam 1 Ch. 1, 2 4/1	
		Quadratic Equations: Functions, Zeros, and Models (OL)	3.2
		Analyzing Graphs of Quadratics	3.3
		Polynomial Functions and Models	4.1
		Graphing Polynomial Functions	4.2
		HW 3.2, 3.3, 4.1, 4.2 due 4/6	
4	Apr 7-11	Polynomial Division: The Remainder Theorem and the Factor Theorem	4.3
		Rational Functions	4.5
		Polynomial and Rational Inequalities (OL)	4.6
		HW 4.3, 4.5, 4.6 due 4/13	
		Quiz 2: 3.2, 4.3, 4.5 due 4/13	
		Review Test 2	
		Inverse Functions	5.1
		HW 5.1 due 4/20	
5	Apr 14-18	Exam 2 Ch. 3, 4 4/11-4/13 (OL)	
		Exponential Functions and Graphs	5.2
		Logarithmic Functions and Graphs	5.3
		Properties of Logarithmic Functions	5.4
		Solving Exponential Equations and Logarithmic Equations	5.5
		HW 5.1- 5.5 due 4/20	
		Quiz 3 (5.1-5.3) due 4/20	

6	Apr 21-25	Applications and Models HW 5.6 due 4/23 Review Test 3 Exam 3 Ch. 5 4/24 Matrices and Systems of Equations Systems of Equations in Two Variable (OL) HW 6.1, 6.3 due 4/27	5.6 6.3 6.1
7	Apr 28- May 2	Systems of Equations in Three Variables HW 6.2 due 4/30 Review Exam 4 Exam 4 Ch. 6 5/1 Final Exam Review	6.2
8	May 5-9	Final Exam 5/6	

***** Course outline may be adjusted at the discretion of the instructor. *****
Any changes made will be communicated to the students.

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook https://www.com.edu/student-services/docs/Student_Handbook_2024-2025_v2.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor’s professional judgment of the quality of the student’s work and performance is also not an admissible basis for a grade appeal.*

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact: Kimberly Lachney, Student Accessibility Services Coordinator Phone: 409-933-8919 Email: AccessibilityServices@com.edu Location: COM Doyle Family Administration Building, Student Success Center

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a “W” grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is February 26. The last date to withdraw from the 16-week session is April 21. The last date to withdraw for the 2nd 8-week session is April 30.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.

Nondiscrimination Statement:

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.