



Department of Mathematics

Syllabus

for

Math 1314.001IN Fall 2021

College Algebra

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Student hours:

Office Hours: MW 1:30-3:30 pm, TR 4:30-5:15 pm on Microsoft Teams or on campus
Other times by appointment.

1. Required Textbook/Materials

The textbook used in this course is: College Algebra, by Beecher, Penna, Bittinger, fifth edition, published by Pearson.

A graphing calculator is needed for this course. A Texas Instruments TI 83 Plus or TI 84 Plus is recommended. A TI 89 or higher cannot be used in this course.

You will need access to the internet to gain access to course materials using the MML (MyMathLab) software. If you do not have your own internet access, you can get access on campus in the Innovations Computer Lab, TVB 1324, the Library and the Tutoring Center, TVB 1310.

2. Course Description

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

3. Course Requirements

Homework Assignments

There is an assigned homework for each section to be completed online using MML.

Quizzes and Exams

There are 4 quizzes, 4 chapter exams and a comprehensive final exam. All of the quizzes and exams are to be done online using MML. You can retake each quiz just once to improve your

score; the higher score will be the one that counts.

There are no retakes on any of the exams.

4. **Determination of Course Grade/Detailed Grading Formula**

Grading Formula:

The course grade will be determined by the following formula:

$$\text{Final Average} = 64\% \text{Chapter Exam Average} + 16\% \text{Final Exam} \\ + 10\% \text{Homework Average} + 10\% \text{Quiz Average}$$

The Final Exam score will replace the lowest Chapter Exam Score when it is larger.

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)

5. **Make-up policy**

You will be given two days to take a chapter exam and three days to take the final exam. If you are unable to make a scheduled exam within days specified in the course outline, you will be allowed to make up the exam provided that you notify the instructor before the end of the scheduled exam period and have a legitimate reason for not being able to take the exam.

6. **Attendance Policy**

You must log in and be active in MML at least three times each week. In addition to time spent in doing homework, taking quizzes and exams it will be necessary to study, using the course materials, at least 4 hours per week to be successful in the class.

7. **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. **The email account used to register for MML must be your COM email.**

I will make every effort to respond to your email within 24 hours of receiving it.

8. Table Mapping SLO's and Core Objectives

Student Learner Outcomes	SLO assessed via this assignment	SLO maps to Core Objective	Core Objective assessed via this assignment
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.	Exam 1		
2. Recognize and apply polynomial, rational, exponential and logarithmic functions and solve related equations.	Exam 2, Exam 3	Critical Thinking Skills (CT)	2 application problems on Exam 3
3. Apply graphing techniques.	Quiz 3	Communication Skills (CS)	Graphing question on Exam 1
4. Evaluate all roots (zeros) of higher degree polynomials and rational functions.	Quiz 2		
5. Recognize, solve and apply systems of linear equations using matrices.	Exam 4	Empirical and Quantitative Skills (EQS)	2 application problems on Exam 4

Only the Core Objectives Critical Thinking and Empirical & Quantitative Skills will be assessed this semester. Communication Skills will not be assessed.

9. 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.

10. Concerns about the Instructor

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 the Dean of Instruction for STEM, Arts & Humanities, Dr. Barney, at (409) 933-8727, rbarney@com.edu.

11. Course Outline

<u>Week</u>	<u>Topic</u>	<u>Sections</u>	<u>Due Date</u>
1	Introduction to Graphs	1.1	Aug 31
	Functions and Graphs	1.2	Sep 2
2	Linear Functions, Equations of Lines	1.3, 1.4	7
	Linear Functions, Zeros	1.5	9
	Inc, Dec, Piecewise Functions	2.1	9
	Quiz 1: Sections 1.1-1.5		9
3	Algebra of Functions, Composition	2.2, 2.3	14
	Transformations	2.5	15
4	Review		
	Exam 1: Chapter 1, 2		16-17
5	Quadratic Functions	3.2	28
	Graphs of Quadratic Functions	3.3	30
6	Polynomial Functions	4.1	Oct 5
	Graphs of Polynomial Functions	4.2	7
7	Remainder, Factor Theorems	4.3	12
8	Rational Functions, Poly Inequalities	4.5, 4.6	18
	Quiz 2: Finding Zeros. Sections 3.2, 4.3, 4.5		18
9	Review		
	Exam 2: Chapter 3, 4		19-20
	Inverse Functions	5.1	28
10	Exponential Functions	5.2	Nov 2
	Logarithmic Functions	5.3	4
	Quiz 3: Graphing Techniques. Sections 5.1-5.3		4
11	Properties of Log Functions	5.4	4
	Exponential, Log Equations	5.5	10
12	Modeling, Review	5.6	10
	Review		
	Exam 3: Chapter 5		11-12
13	Solve Linear Systems	6.1, 6.3	24
	Applications	6.2	24
14	Matrix Operations	6.4	1
	Quiz 4: Sections 6.1-6.4		Dec 1
	Review		
	Exam 4 Chapter 6		2-3
15	Review		
	Final Exam		6-8

**** W-day: December 2nd ****

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://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.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.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

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 Holly Bankston at 409-933-8520 or hbankston@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Counseling Statement: Any student needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

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 October 6. The last date to withdraw from the 16-week session is November 19. The last date to withdraw for the 2nd 8-week session is December 2.

F_N Grading: The F_N grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_N 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 F_N grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_N 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.

COVID-19 Statement: All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at www.com.edu/coronavirus. In compliance with Governor Abbott's May 18 Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit com.edu/coronavirus for future updates.