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Department of Mathematics

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**Syllabus:** Math 1314-222CL (7494) **Fall 2023 College Algebra**  
**Professor:** Abbas Masum  
**E-mail:** [amasum@com.edu](mailto:amasum@com.edu) **Telephone:** (409) 933-8329  
**Class time:** 7:30PM - 8:50PM, 08:51PM - 09:20PM  
**Location:** STEAM Bldg. #22 Room 119, MW

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**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 make every effort to respond to your email within 24 hours of receiving it. Please specify which course you are contacting me about and follow the proper way to write your email. If your email is not clear/proper, no reply will be sent.

**Student Hours:** MML and practicing the required.

**Office Hours:** By appointment or times listed below:

MW
5:00PM-5:30PM Room 103

**1. Required Textbook**

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

**2. Textbook Purchase**

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.

**3. 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.

**4. Course requirements:**

**Videos:** Video assignments will be given each week for every section covered in the course. Video assignments will count as 1% of your final grade.

**Homework:** Homework assignments will be given each week for every section covered in the course. Homework assignments will count as 9% of your final grade.

**Quizzes:** Four quizzes will be given. Cumulatively, the quizzes will count as 10% of your final grade.

**Unit Exams:** Four exams will be given, and you will be provided with a review to prepare for each exam. Each test will count as 16% of your grade.

**Final Exam:** The comprehensive final exam will be given at the end of the course during Week 16. The final exam will count as 16% of your grade and will replace your lowest exam grade if it is higher.

### 5. Technology

A graphing calculator, such as a TI-84 Plus, is required for this course. A TI-89 or higher or a TI-Nspire are not permitted. Internet capability is also required to gain access to course materials and online assignments via MyMathLab software.

### 6. Determination of Course Grade

**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)

### 7. Makeup policy

There will be no makeup test for any missed test. However, if a test is missed and you notify me ahead of time, I might arrange for an alternative. No makeup will be granted to be taken during the regular class time. This policy is only good for **ONE MISSED EXAM**. Missing more than one exam will count as ZERO.

### 8. Course Outline (Subject to change)

Date	Topics	Sections
8/28/2023	Orientation	
8/30/2023	Introduction to Graphs	
	Functions and Graphs	1.2
	Linear Functions, Zeros	
	Quiz 1: Sections 1.1-1.5	
	Inc. Dec. Piecewise Functions	
9/4/2023	No Class-Labor Day	
	Algebra of Functions	2.2
9/6/2023	Compositions	
9/11/2023	Transformations	
9/13/2023	Review for Exam 1	
9/18/2023	Exam 1: Chapters 1 and 2	

9/20/2023	Quadratic Functions	3.1
9/25/2023	Graphs of Quadratic Functions	3.2
9/27/2023	Polynomial Functions	3.3
	Graphs of Polynomial Functions	3.4
10/2/2023	Remainder, Factor Theorems	
	Rational Functions	
	<b>Quiz 2: Finding Zeros – 3.2, 4.3, 4.5</b>	
10/4/2023	<b>Review for Exam 2</b>	
10/9/2023	<b>Exam 2: Chapters 3 and 4</b>	
10/11/2023	Inverse Functions	5.1
	Exponential Functions	5.2
10/16/2023	Logarithmic Functions	5.3
	<b>Quiz 3: Graphing Techniques – Sections 5.1-5.3</b>	
10/18/2023	Properties of Log Functions	5.4
10/23/2023	Exponential, Log Equations	5.5
	Modeling	5.6
10/25/2023	<b>Review for Exam 3</b>	
10/30/2023	Exam 3: Chapter 5	
11/1/2023	Solve Linear Systems 2x2	6.1
11/6/2023	Solve Linear Systems 3x3	6.2
11/8/2023	Applications	6.3
11/13/2023	Matrix Operations	6.4
	<b>Quiz 4: Sections 6.2-6.4</b>	
11/15/2023	Geometry: Lines, Angles, Quadrilaterals	
	Geometry: Triangles and Solids	
11/20/2023	Right Angle Trigonometry: Part 1	
	Right Angle Trigonometry: Part 2	
11/22/2023	<b>Thanksgiving Holiday</b>	
11/27/2023	<b>Review for Exam 4</b>	
11/29/2023	<b>Exam 4: Chapter 6</b>	
12/4/2023	<b>Review for Final Exam</b>	
12/6/2023		
12/11/2023	<b>Comprehensive Final Exam</b>	
12/13/2023		

## 9. Attendance Policy



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**You must log in and be active in MyMathLab at least four times a week.** In addition to time spent 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.

### **10. 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 is 11/28/2023** (please verify).

### **11. 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 for you to meet your academic goals.

### **12. 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.

### **13. Concerns about the Instructor**

If you have any concerns or issues with the instructor, you should first attempt to resolve the issue with the instructor. If you are unable to resolve the issue with the instructor, you should then contact then Mathematics Department Chair, Mr. Leslie Richardson at (409) 933-8329, [lrichardson@com.edu](mailto:lrichardson@com.edu).

## 14. Table Mapping SLO's and Core Objectives

Student Learner Outcomes	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 1,2
3. Apply graphing techniques.	Visual Communication Skills (CS)	Quiz 1, 2
4. Evaluate all roots (zeros) of higher degree polynomials and rational functions.	Critical Thinking Skills (CT)	Quiz 3, 4
5. Recognize, solve and apply systems of linear equations using matrices.	Empirical and quantitative Skills (EQS)	Exam 1,2,3,4

### 15. 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\\_2023-2024\\_v2.pdf](https://www.com.edu/student-services/docs/Student_Handbook_2023-2024_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.

### 16. Academic Success & Support Services

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

### 17. ADA Statement

Any student with a documented disability needing academic accommodation is requested to contact Kimberly Lachney at 409-933-8919 or [klachney@com.edu](mailto:klachney@com.edu). The Office of Services for Students with Disabilities is located in the Student Success Center.

### 18. Counseling Statement:

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

**Please Note:**

Computer access and printing will be available on the following days and times in either Innovations or the Library Lab.

Monday:	7am – 6pm	Tuesday:	7am – 6pm
Wednesday:	8am – 6pm	Thursday:	7am – 6pm
Friday:	8am – 12pm	Saturday:	9am – 1pm

Here are the links for each of the labs. The hours are updated online.

<https://www.com.edu/computer-labs/library-computer-lab>

<https://www.com.edu/computer-labs/innovations>

## **Institutional Policies and Guidelines**

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**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



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8-week session is October 11. The last date to withdraw from the 16-week session is November 28. The last date to withdraw for the 2nd 8-week session is December 7.

**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:**

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### **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](mailto:deanofstudents@com.edu) or [communityresources@com.edu](mailto:communityresources@com.edu).