



MATH-0315-151CL
Foundations of Algebra
Summer 2024
Steam Building, Room 105
M-F 8:00 – 8:50 AM

Instructor Information:

Abbas Masum

Email: amasum@com.edu

Phone #: 409-933-8329

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 and location: Steam, Bldg. #22, Room 105

Student Hours: MML and practicing the required.

Office Hours: By appointment or times listed:

7:00AM-8:00AM

Required Textbook: Intermediate Algebra, 8th edition, by Tobey, Slater, Blair and Crawford by Pearson. The homework and quizzes as well as the e-text and videos for this course are online. The access code for MyMathLab may be purchased with the textbook or may be purchased separately online at <https://mlm.pearson.com/northamerica/mymathlab/> You need the access code and the course code to gain access to MyMathLab today.

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.

Course Description: This course is designed to develop skills and understanding in the following areas: basic algebra concepts to include exponents, factoring and radicals; relations and functions, inequalities, algebraic expressions, and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. Prerequisites/co-requisites: Prerequisite of TSIA2 Math Diagnostic 4. This course does not transfer.

Student Learning Outcomes

Upon successful completion of Math 0315, students will:

- i. Define, represent, and perform operations on real and complex numbers.
- ii. Recognize, understand, and analyze features of a function.
- iii. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational expressions.
- iv. Identify and solve absolute value, polynomial, radical, and rational equations.
- v. Identify and solve absolute value and linear inequalities.

- vi. Model, interpret and justify mathematical ideas and concepts using multiple representations.
- vii. Connect and use multiple strands of mathematics in situations and problems, as well as to the study of other disciplines.

Course requirements:

Technology: A graphing calculator is needed for this course. A Texas Instruments TI 83 Plus or TI 84 Plus is recommended. A TI 89, TI-Inspire or higher **cannot** be used for this course.

Homework Assignments

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

Quizzes and Exams

There are four quizzes, four chapters exams and a comprehensive final exam. All of the quizzes and homework are 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 are no retakes on any of the in-class exams. There will be no extra credit. Please do not ask me to help you to pass the course. If you plan on applying yourself and devoting your time, you will pass.**

Determination of Course Grade/Detailed Grading Formula:

**Final Average = 64%Chapter Exam Average + 16%Final Exam
+ 10%Homework Average + 10%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)

Late Work, Make-Up, and Extra-Credit 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.

Attendance Policy: Attendance for face-to-face class is an essential part of your success. Please attend every scheduled meeting so that you get the most out of the lectures, and the students' input.

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.

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. (Faculty may add additional statement requiring monitoring and communication expectations via D2L or other LMS)

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

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 [insert name and title of direct supervisor] at [phone number/email address].

Course outline: (include calendar with lecture topics, due dates)

Date	Topics/Activities
Jun. 3	Introduction to the course
Jun. 4	1.5 Operations w/ Variables & Grouping Symbols
Jun. 5	1.6 Evaluating Variable Expressions & Formulas
Jun. 6	2.1 First Degree Equations with One Unknown
Jun. 7	2.4 Solving Word Problems
Jun. 10	2.6 Linear Inequalities

Jun. 11	2.8 Absolute Value Equations
Jun. 12	Quiz A: Sections 1.5, 1.6, 2.3 & 2.4
Jun. 13	2.8 Absolute Value Inequalities
Jun. 14	Review: 1.5, 1.6 & Chapter 2
Jun. 17	Test 1: 1.5, 1.6 & Chapter 2
Jun. 18	3.1 Graphing Linear Equations
Jun. 19	No Class-Juneteenth Day
Jun. 20	3.2 Slope of a Line
Jun. 21	3.3 Equations of a Line 3.3 Equations of a Line
Jun. 24	Quiz B: Sections 3.1-3.3
Jun. 25	4.1 Systems of Linear Equations
Jun. 26	4.3 Applications of Systems of Equations
Jun. 27	Review Chapters 3 & 4
Jun. 28	Test 2: Chapters 3, 4
Jul. 1	1.4 Rules of Exponents (no scientific notation)
Jul. 2	5.1 Polynomials: Adding, Subtraction, Multiplying
Jul. 3	5.3 Synthetic Division
Jul. 4	4th of July-No Class
Jul. 5	Quiz C: Section 1.4, 5.1, 5.3
Jul. 8	5.4 GCF, Factor by Grouping
Jul. 9	5.5 Factoring Trinomials
Jul. 10	5.6 Special Case Factoring
Jul. 11	5.8 Solving Equations by Factoring
Jul. 12	Review 1.4 & Chapter 5
Jul. 15	Review 1.4 & Chapter 5
Jul. 16	Test 3: 1.4 & Chapter 5
Jul. 17	6.1 Rational Expressions, Simplifying, Multiplication, Division
Jul. 18	6.2 Addition, Subtraction of Polynomials
Jul. 19	Test 3: 1.4 & Chapter 5
Jul. 22	6.1 Rational Expressions, Simplifying, Multiplication, Division

Jul. 23	6.2 Addition, Subtraction of Polynomials
Jul. 24	3.6 Graphing Functions
Jul. 25	7.2 Radical Expressions and Functions (Square Root Only)
Jul. 26	7.3 Simplifying, Adding and Subtracting Radicals
Jul. 29	7.4 Multiplying, Dividing Radical
Jul. 30	Quiz D: Sections 7.2, 7.3, 7.4
Jul. 31	7.6 Complex Numbers
Aug. 1	Review Chapters 6 & 7
Aug. 2	Review Chapters 6 & 7
Aug. 5	Test 4: Chapters 6, 7
Aug. 6	Final Exam Review
Aug. 7	Final Exam Review
Aug. 8	Final Exam Review
Aug. 9	Final Exam

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_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.*

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 5-week session is July 1. The last date to withdraw from the 10-week session is July 30. The last date to withdraw for the 2nd 5-week session is August 2.**

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.