



Department of Mathematics

Syllabus for **Math 0315-141CL (6998)** **Summer 1 2023 Foundations of Algebra**
Professor: **Abbas Masum** **E-mail:** amasum@com.edu
Telephone: **(409) 933-8329**
Class time: **08:00AM - 08:50AM, Steam, Bldg. #22, M-F, Room 103**

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:

M-F
7:30AM-8:0AM

- 1. 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.
- 2. 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.
- 3. 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.
- 4. Technology**
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 for this course.

5. Course Requirements

Homework Assignments

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

Course requirements (including description of any special projects or assignments):

- A. Four Chapter Tests
- B. Comprehensive Final Exam
- C. *MyMathLab (MML)* Online Assignments
- D. Quizzes Assignments

Quizzes and Exams

There are four quizzes, four chapters exams and a comprehensive final exam. All of the quizzes and exams 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 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.**

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.

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

Date	Topics/Activities
Mon, Jun 5	Introduction to the course
Tue, Jun 6	1.5 Operations w/ Variables & Grouping Symbols
Wed, Jun 7	1.6 Evaluating Variable Expressions & Formulas
Thu, Jun 8	2.1 First Degree Equations with One Unknown
Fri, Jun 9	2.4 Solving Word Problems
Mon, Jun 12	2.6 Linear Inequalities
Tue, Jun 13	2.8 Absolute Value Equations
Wed, Jun 14	Quiz A: Sections 1.5, 1.6, 2.3 & 2.4
Thu, Jun 15	2.8 Absolute Value Inequalities
Fri, Jun 16	Review: 1.5, 1.6 & Chapter 2
Mon, Jun 19	No Class-Juneteenth Day
Tue, Jun 20	Test 1: 1.5, 1.6 & Chapter 2
Wed, Jun 21	3.1 Graphing Linear Equations
Thu, Jun 22	3.2 Slope of a Line
Fri, Jun 23	3.3 Equations of a Line 3.3 Equations of a Line
Mon, Jun 26	Quiz B: Sections 3.1-3.3
Tue, Jun 27	4.1 Systems of Linear Equations
Wed, Jun 28	4.3 Applications of Systems of Equations
Thu, Jun 29	Review Chapters 3 & 4
Fri, Jun 30	Test 2: Chapters 3, 4
Mon, Jul 3	1.4 Rules of Exponents (no scientific notation)
Tue, Jul 4	5.1 Polynomials: Adding, Subtraction, Multiplying
Wed, Jul 5	4th of July-No Class
Thu, Jul 6	5.3 Synthetic Division
Fri, Jul 7	Quiz C: Section 1.4, 5.1, 5.3
Mon, Jul 10	5.4 GCF, Factor by Grouping
Tue, Jul 11	5.5 Factoring Trinomials
Wed, Jul 12	5.6 Special Case Factoring
Thu, Jul 13	5.8 Solving Equations by Factoring
Fri, Jul 14	Review 1.4 & Chapter 5
Mon, Jul 17	Review 1.4 & Chapter 5
Tue, Jul 18	Test 3: 1.4 & Chapter 5
Wed, Jul 19	6.1 Rational Expressions, Simplifying, Multiplication, Division



Thu, Jul 20	6.2 Addition, Subtraction of Polynomials
Fri, Jul 21	Test 3: 1.4 & Chapter 5
Mon, Jul 24	6.1 Rational Expressions, Simplifying, Multiplication, Division
Tue, Jul 25	6.2 Addition, Subtraction of Polynomials
Wed, Jul 26	3.6 Graphing Functions
Thu, Jul 27	7.2 Radical Expressions and Functions (Square Root Only)
Fri, Jul 28	7.3 Simplifying, Adding and Subtracting Radicals
Mon, Jul 31	7.4 Multiplying, Dividing Radical
Tue, Aug 1	Quiz D: Sections 7.2, 7.3, 7.4
Wed, Aug 2	7.6 Complex Numbers
Thu, Aug 3	Review Chapters 6 & 7
Fri, Aug 4	Review Chapters 6 & 7
Mon, Aug 7	Test 4: Chapters 6, 7
Tue, Aug 8	Final Exam Review
Wed, Aug 9	Final Exam Review
Thu, Aug 10	Final Exam Review
Fri, Aug 11	Final Exam

9. Attendance Policy

You must log in and be active in MyMathLab at least four times a 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.

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 06/30/2023 (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 in order 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

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
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

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://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

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 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.

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. Counseling services are available on campus in the student center for free and students can also email 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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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.

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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.