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Department of Mathematics

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| <b>Syllabus for</b> | <b>Math 0315-151C6</b>                                   | <b>Summer 1 2025 Foundations of Algebra</b>                       |
| <b>Professor:</b>   | <b>Abbas Masum</b>                                       | <b>E-mail:</b> <a href="mailto:amasum@com.edu">amasum@com.edu</a> |
| <b>Telephone:</b>   | <b>(409) 933-8329</b>                                    |   |
| <b>Class time:</b>  | <b>08:00AM - 08:50AM, Steam, Bldg. 22, M-F, Room 105</b> |   |

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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:

|              |
|--------------|
| 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 assigned homework for each section to be completed online using MyMathLab.

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**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 C: Final Average in [69.5, 79.5]  
Grade F: Final Average in [0, 59.5)

Grade B: Final Average in [79.5, 89.5)  
Grade D: Final Average in [59.5, 69.5)

**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 2                | Introduction to the course  |
| Tue, Jun 3                | 1.5 Operations w/ Variables & Grouping Symbols                        |
| Wed, Jun 4                | 1.6 Evaluating Variable Expressions & Formulas                        |
| Thu, Jun 5                | 2.1 First Degree Equations with One Unknown                           |
| <b><u>Fri, Jun 6</u></b>  | 2.4 Solving Word Problems   |
| Mon, Jun 9                | 2.6 Linear Inequalities   |
| Tue, Jun 10               | 2.8 Absolute Value Equations  |
| Wed, Jun 11               | Quiz A: Sections 1.5, 1.6, 2.3 & 2.4                                  |
| Thu, Jun 12               | 2.8 Absolute Value Inequalities                                       |
| <b><u>Fri, Jun 13</u></b> | Review: 1.5, 1.6 & Chapter 2  |
| Mon, Jun 16               | Test 1: 1.5, 1.6 & Chapter 2  |
| Tue, Jun 17               | 3.1 Graphing Linear Equations,  |
| Wed, Jun 18               | 3.2 Slope of a Line   |
| Thu, Jun 19               | <b>No Class-Juneteenth Day</b>  |
| <b><u>Fri, Jun 20</u></b> | 3.3 Equations of a Line 3.3 Equations of a Line                       |
| Mon, Jun 23               | Quiz B: Sections 3.1-3.3  |
| Tue, Jun 24               | 4.1 Systems of Linear Equations                                       |
| Wed, Jun 25               | 4.3 Applications of Systems of Equations                              |
| Thu, Jun 26               | Review Chapters 3 & 4   |
| <b><u>Fri, Jun 27</u></b> | Test 2: Chapters 3, 4   |
| Mon, Jun 30               | 1.4 Rules of Exponents (no scientific notation)                       |
| Tue, Jul 1                | 5.1 Polynomials: Adding, Subtraction, Multiplying                     |
| Wed, Jul 2                | 4th of July-No Class  |
| Thu, Jul 3                | 5.3 Synthetic Division  |
| <b><u>Fri, Jul 4</u></b>  | <b>4<sup>th</sup> of July, No Class</b> Quiz C: Section 1.4, 5.1, 5.3 |
| Mon, Jul 7                | 5.4 GCF, Factor by Grouping   |
| Tue, Jul 8                | 5.5 Factoring Trinomials  |
| Wed, Jul 9                | 5.6 Special Case Factoring  |
| Thu, Jul 10               | 5.8 Solving Equations by Factoring                                    |
| <b><u>Fri, Jul 11</u></b> | Review 1.4 & Chapter 5  |
| Mon, Jul 14               | Review 1.4 & Chapter 5  |
| Tue, Jul 15               | Test 3: 1.4 & Chapter 5   |
| Wed, Jul 16               | 6.1 Rational Expressions, Simplifying, Multiplication, Division       |

|                    |   |
|--------------------|---|
| Thu, Jul 17        | 6.2 Addition, Subtraction of Polynomials                        |
| <b>Fri, Jul 18</b> | Test 3: 1.4 & Chapter 5   |
| Mon, Jul 21        | 6.1 Rational Expressions, Simplifying, Multiplication, Division |
| Tue, Jul 22        | 6.2 Addition, Subtraction of Polynomials                        |
| Wed, Jul 23        | 3.6 Graphing Functions  |
| Thu, Jul 24        | 7.2 Radical Expressions and Functions (Square Root Only)        |
| <b>Fri, Jul 25</b> | 7.3 Simplifying, Adding and Subtracting Radicals                |
| Mon, Jul 28        | 7.4 Multiplying, Dividing Radical                               |
| Tue, Jul 29        | Quiz D: Sections 7.2, 7.3, 7.4                                  |
| Wed, Jul 30        | 7.6 Complex Numbers   |
| Thu, Jul 31        | Review Chapters 6 & 7   |
| Fri, Aug 4         | Review Chapters 6 & 7   |
| Mon, Aug 4         | Test 4: Chapters 6, 7   |
| Tue, Aug 5         | Final Exam Review   |
| Wed, Aug 6         | Final Exam Review   |
| Thu, Aug 7         | Final Exam  |
| Fri, Aug 8         | End of the semester   |

## 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.

## 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                         |

## 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](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 with 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 accommodation 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 1<sup>st</sup> 5-week session is June 30. The last date to withdraw from the 10-week session is July 29. The last date to withdraw for the 2<sup>nd</sup> 5-week session is August 1.

**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.

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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).

**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.

**Library Computer Lab**

The Library Computer Lab, located on the main floor of the library, has staff ready to assist all

**Library Hours**

Monday - Thursday, 7:30 AM to 8:00 PM

Friday, 7:30 AM to 5:00 PM

Saturday, 9:00 AM to 1:00 PM

Get the latest hours <https://libguides.com.edu/hours>