



Math 0315.136CL
Foundations of Algebra
Fall 2023

MW 11:00 am – 12:20 pm ST107
MW 12:30 pm – 1:50 pm ST107
F 11:00 am – 11:50 am ST107

Instructor Information: James Griffiths jgriffiths@com.edu 409-933-8225

Student hours and location: MW 8:30 am – 11:00 am in STE325-08
MW 4:30 pm – 5:30 pm in STE325-08
TTh 8:30 am – 9:30 am in STE325-08

Required Textbook: Intermediate Algebra, 8th edition, by Tobey, Slater, Blair and Crawford by Pearson. The e-text is provided with *MyLab Math*. The student will need a computer and internet service outside of class to gain access to the online assignments on *MyLab Math*. Computers and internet access are available on campus during specified times. A Texas Instruments TI30XIIS scientific calculator is recommended for Math 0315. A Texas Instruments TI84 plus graphing calculator may not be used in Math 0315.

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. Prerequisite: TSIA2 Math Diagnostic 4. This course does not transfer.

Homework Assignments on MyLab Math: There is a homework assignment for each unit covered. These are listed on the course outline in the syllabus and on the list of assignments on *MyLab Math*. Each day's homework assignments must be completed by 11:59 pm on the due date shown on both the course outline and on the list of assignments on *MyLab Math*. You should do the assignments as soon as possible after participating in the lecture, reading the appropriate section in the text book, and watching the associated video(s) on *MyLab Math*. Although the homework is online and the answers are entered online, you should write your work on paper, neatly showing all steps, and keep it in your notebook with your notes for future reference, both as an aid for preparing for quizzes and exams, and as a place to begin when seeking assistance from your professor, your peers, or the college tutoring center. The student has a limit of five attempts to answer a question correctly on the homework assignments.

Quizzes on MyLab Math: Four quizzes which relate to the student learning outcomes, will be taken on *MyLab Math*. Like the homework assignments, the due dates are shown on both the course outline in this syllabus and on the assignment list on *MyLab Math*. Unlike the homework assignments, the quizzes must be taken in one sitting, they are timed, and the student gets only one attempt to answer each question. The quizzes may be retaken one time. The higher of the two grades will be used to determine the student's quiz average.

Chapter Exams: There are four exams which cover the chapters in the textbook. The exams are taken in class on the due dates shown on the course outline in the syllabus. The student has 90 minutes to take each exam. **Exams may not be retaken.** However, if the grade on the final exam is higher than the lowest chapter exam grade, the final exam grade will replace the lowest chapter exam grade.

Comprehensive Final Exam: The final exam is taken in class on the due date shown on the course outline in the syllabus. The student has 90 minutes to take the final exam. **The final exam may not be retaken.**

Determination of Course Grade/Detailed Grading Formula:

Comprehensive Final Exam	20%
Average of Chapter Exams	60%
Homework Average	10%
<u>Quiz Average</u>	<u>10%</u>
Final Average	100%

Grade I: Given unforeseen circumstances that result in the inability to successfully complete the course objectives, an I-Contract can be requested from the instructor assuming you meet the following criteria:

1. Have a passing overall average (70 or higher)
2. All work completed except for The Final Exam.

Grading Scale:

Grade A: Final Average is [89.5, 100]

Grade B: Final Average is [79.5, 89.5)

Grade C: Final Average is [69.5, 79.5)

Grade D: Final Average is [59.5, 69.5)

Grade F: Final Average is [0, 59.5)

Late Work, Make-Up, and Extra-Credit Policy: There is a twenty (20) point penalty for all homework and quizzes submitted after the due date. Any homework assignments or quizzes that are not finished by the due date of the associated exam will be given a grade of zero at the time the exam is given.

There are no make-up exams unless:

- 1) the student notifies the instructor before the exam due date that they will miss the exam, and
- 2) the reason for the requested make-up exam is extraordinary.

Students will **not** be permitted to make up more than **one** exam.

Three points extra credit is given on exams if the student earns a score of 95 or better on the review. Extra-credit assignments may also be given throughout the course at the discretion of the instructor. It is never given at the end of the semester to bring up a poor grade. Do not even ask.

Attendance Policy: Students at COM are expected to attend and participate in every session of all classes for which they are registered. College of the Mainland recognizes no excused absences other than those prescribed by law. Students with excessive absences will be referred to Student Services. Students should consult information provided in My Math Lab and the course calendar when it becomes necessary to miss a class in order to be prepared when they return to class. The student is still responsible for work that is assigned during an absence and due dates still hold.

A student is tardy if they enter the class room after class begins. Punctuality is a matter of consideration for other people. When a student arrives to class late or leaves early, they create a distraction to their peers and the professor, delaying or disrupting the learning process. Students who repeatedly arrive late or leave early will be referred to Student Services.

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 **preferred** method of communication in this course is in person. If that is not possible, an email or phone call will be satisfactory, but do not leave a message on my phone. If you cannot reach me by phone, email me. Be sure to include your name, the course in which you are enrolled, and state your question completely.

Student Learner Outcomes: Upon successful completion of MATH 0320, students will:

1. Define, represent and perform operations on real and complex numbers.
2. Recognize, understand and analyze features of a function.
3. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational expressions.
4. Identify and solve absolute value and linear inequalities.
5. Model, interpret and justify mathematical ideas and concepts using multiple representations.
6. Model, interpret and justify mathematical ideas and concepts using multiple representations.
7. Connect and use multiple strands of mathematics in situations and problems, as well as to the study of other disciplines.

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 of *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 Mr. Leslie Richardson, Math Department Chair, at 409-933-8329 or lrichardson@com.edu.

Course outline:

<u>Week</u>	<u>Date</u>	<u>Sections</u>
1	8/28	0315 - Orientation Assignment Due 9/1
		0315 - 1.5 Operations with Variables, Grouping Symbols Due 9/1
		0315 - 1.6 Evaluating Variable Expressions & Formulas Due 9/1
	8/30	0315 - 2.1 First Degree Equations with One Unknown Due 9/1
		0315 - 2.4 Solving Word Problems Due 9/1
	9/1	0315 - 2.6 Linear Inequalities Due 9/5
2	9/4	HOLIDAY
	9/6	0315 - 2.3 Absolute Value Equations Due 9/8
		0315 - Quiz 1 (1.5, 1.6, 2.1, 2.3, 2.4) Due 9/8
		0315 - 2.8 Absolute Value Inequalities Due 9/8
		0315 - Review for Exam 1 Due 9/11
	9/8	0315 - 3.1 Graphing Linear Inequalities Due 9/11
3	9/11	0315 - Exam 1 (1.5 – 2.8) Due 9/11
		0315 - 3.2 Slope of a Line Due 9/15
	9/13	0315 - 3.3 Equations of Lines Due 9/15
		0315 - Quiz 2 (3.1 – 3.3) Due 9/15
		0315 - 4.1 Systems of Linear Equations Due 9/15
	9/15	0315 - 4.3 Applications of Systems of Equations Due 9/18
		0315 - Review for Exam 2 Due 9/18
4	9/18	0315 - Exam 2 (3.1 – 4.3) Due 9/18
		0315 - 1.4 Rules of Exponents (omit scientific notation) Due 9/22
	9/20	0315 - 5.1 Polynomials: Add, Subtract, Multiply Due 9/22
	9/22	0315 - 5.3 Synthetic Division Due 9/25
		0315 - Quiz 3 (1.4, 5.1, 5.3) Due 9/25
5	9/25	0315 - 5.4 GCF & Factoring by Grouping Due 9/29
	9/27	0315 - 5.5 Factoring Trinomials Due 9/29
		0315 - 5.6 Special Case Factoring Due 9/29
	9/29	0315 - 5.8 Solving Equations Using Factoring Due 10/2
		0315 - Review for Exam 3 Due 10/2

- 6 10/2 **0315 - Exam 3 (1.4, 5.1 – 5.8) Due 10/2**
0315 - 6.1 Simplify, Multiply, Divide Rational Expressions
Due 10/6
- 10/4 1324 - Orientation Exercises Due 10/6
1324 - 3.1 Functions Due 10/6
1324 - 3.2 Graphs of Functions Due 10/6
1324 - 3.3 Applications of Linear Functions Due 10/6
- 10/6 **0315 - 6.2 Add, Subtract Rational Expressions Due 10/9**
- 7 10/9 1324 - 3.4 Quadratic Functions and Applications Due 10/13
1324 - 3.5 Polynomial Functions Due 10/13
1324 - 3.6 Rational Functions Due 10/13
1324 - Quiz 1 (3.1 – 3.6) Due 10/13
- 10/11 1324 - 4.1 Exponential Functions Due 10/13
1324 - 4.2 Applications of Exponential Functions Due 10/13
- 10/13 **0315 - 3.6 Graphing Functions Due 10/16**
- 8 10/16 1324 - 4.3 Logarithmic Functions Due 10/18
1324 - 4.4 Logarithmic and Exponential Equations Due 10/18
1324 - Review for Exam 1 Due 10/18
- 10/18 1324 - Exam 1 (3.1 – 4.4) Due 10/18
1324 - 5.1 Simple Interest and Discount Due 10/20
1324 - 5.2 Compound Interest Due 10/20
- 10/20 **0315 - 7.2 Radical Expressions and Functions Due 10/23**
- 9 10/23 1324 - 5.3 Annuities, Future Value, and Sinking Funds Due 10/27
1324 - 5.4 Annuities, Present Value, and Amortization Due 10/27
1324 - Quiz 2 (5.1 – 5.4) Due 10/27
- 10/25 1324 - 6.1 Systems: 2 Linear Equations in 2 Variables Due 10/27
1324 - 6.2 Larger Systems of Linear Equations Due 10/27
1324 - 6.3 Applications of Systems of Linear Equations Due 10/27
- 10/27 **0315 - 7.3 Simplify Add Subtract Radical Expressions Due 10/30**
- 10 10/30 1324 - 6.4 Basic Matrix Operations Due 11/1
1324 - 6.5 Matrix Products and Inverses Due 11/1
1324 - Review for Exam 2 Due 11/1
- 11/1 1324 - Exam 2 (5.1 – 6.5) Due 11/1
1324 - 7.1 Graphing Linear Inequalities Two Variables Due 11/3
- 11/3 **0315 - 7.4 Multiply, Divide Radical Expressions Due 11/6**
0315 - Quiz 4 (7.2 – 7.4) Due 11/6

- 11 11/6 1324 - 7.2 Linear Programming: The Graphing Method Due 11/10
1324 - 7.3 Applications of Linear Programming Due 11/10
11/8 1324 - 7.4 The Simplex Method: Maximization Due 11/10
1324 - 7.5 Maximization Applications Due 11/10
1324 - Quiz 3 (7.2 – 7.5) Due 11/10
11/10 **0315 - 7.6 Complex Numbers Due 11/13**
0315 - Review for Exam 4 Due 11/15
- 12 11/13 1324 - 8.1 Sets Due 11/17
1324 - 8.2 Apps: Venn Diagrams, Contingency Tables Due 11/17
1324 - 8.3 Introduction to Probability Due 11/17
11/15 **0315 - Exam 4 (6.1 – 7.6) Due 11/15**
0315 - Review for Comprehensive Final Exam Due 11/22
1324 - 8.4 Basic Concepts of Probability Due 11/17
1324 - 8.5 Conditional Probability, Independent Events Due 11/17
11/17 1324 - 8.6 Bayes Formula Due 11/20
1324 - Review for Exam 3 Due 11/20
- 13 11/20 1324 - Exam 3 (7.1 – 8.6) Due 11/20
1324 - 9.1 Probability Distributions and Expected Value Due 11/27
11/22 **0315 - Comprehensive Final Exam Due 11/22**
11/24 HOLIDAY
- ***** W-Day: November 28, 2022 *****
- 14 11/27 1324 - 9.2 Multiplication Principle, Permutations, Combinations
Due 12/1
1324 - 9.3 Applications of Counting Due 12/1
11/29 1324 - 9.4 Binomial Probability 12/1
1324 - Quiz 4 (9.1 – 9.4) Due 12/1
1324 - 10.1 Frequency Distributions Due 12/1
12/1 1324 - 10.2 Measures of Center Due 12/4
1324 - Review for Exam 4 Due 12/4
- 15 12/4 1324 - Exam 4 (9.1 – 10.2) Due 12/4
12/6 1324 - Review for Comprehensive Final Exam Due 12/11
12/8 1324 - Review for Comprehensive Final Exam Due 12/11
- 16 12/11 1324 - Comprehensive Final Exam Due 12/11

The syllabus is subject to change at the discretion of the instructor.

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 at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is located in the 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 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: 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.