



MATH 1314-003IN
College Algebra
FALL 2022

Instructor Information: Gabriela Peña, gpena3@com.edu
Office: **STEAM 325-07**
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Student hours and location: Schedule your time via <https://calendly.com/gpena3>
Monday & Wednesday 1 – 2pm & 4 – 5pm **STEAM 325-07**
Tuesday 3:30 – 5pm **STEAM 325-07**
Tuesday & Thursday 8 – 9am **Online**

Required Textbook: College Algebra, by Beecher, Penna, Bittinger, fifth edition, published by Pearson. The homework and quizzes as well as the e-text and videos for this course are online at mymathlab.com.

Textbook Purchasing Statement: E-Book via MyLab Math in Brightspace - D2L
(No Purchase Necessary)

Course Description: This course is designed to develop skills and understanding in the following areas: relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. This course does not transfer.

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

1. Four Chapter Tests
2. Comprehensive Final Exam
3. *MyMathLab (MML)* Online Assignments
4. Quizzes Assignments

Determination of Course Grade/Detailed Grading Formula (methods of evaluation to be employed to include a variety of means to evaluate student performance):

<u>My Math Lab</u> Homework	10%
Quiz Average	10%
Chapter Exam (Each Exam is 16%)	64%
Final Exam	16%

Homework Assignments on MyLab Math: There is a homework assignment for each section covered in class. These are listed on the course outline beginning on **page 4** of this syllabus.

Twenty percent will be deducted from the score of a homework assignment if it is finished by it is due. Although the homework is online at mymathlab.com, 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 lecture notes for future reference. Both may serve as an aid for preparing for quizzes and exams, and as a place to begin when seeking assistance from your instructor, the math lab, or from your peers. The student has several attempts to answer a question correctly on the homework assignments.

Quizzes on MyLab Math: There are four quizzes which relate to the student learning outcomes. They are to be done on MyLab Math. Unlike the homework assignments, the quizzes must be taken in one sitting, they are timed, and the student only gets one attempt to answer each question. The quizzes can only be taken twice. If not taken by its due date 20% will be deducted. The higher of the two grades will be used to determine the student's quiz average. The scores on these quizzes will be averaged in with the quiz grades on MyLab Math.

Four Chapter Exams & Final Exam: There are four exams which cover the chapters in the textbook. The exams are given on the dates listed on the Course Outline. The student has one hour and twenty minutes to take each exam. There are no make-up exams **unless** the student notifies the instructor in writing **prior** to the Exam and the professor determines if it is a legitimate reason. You will take your exam online using **Lockdown Browser**. You are responsible to find an electronic device that supports lock browser, if yours does not. If you are permitted to make-up the exam, there is a deadline for completing the exam, and if the deadline is not met, the score for the exam will be recorded as a zero. You are only allowed to make-up one exam in the semester, given that any necessary paperwork is provided. For your exams you will be required to upload your work in a **PDF format on Brightspace - D2L**. All problems must be numbered, and you must show work to receive credit. If no work is provided for a question, you may lose points for that question. Exams may not be retaken. However, if the grade on the Final Exam is higher than the lowest chapter exam grade, **the Final Exam will replace your lowest Exam score**.

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)

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

Attendance Policy: Students at COM are expected to attend and participate in every session of all classes for which they are registered. Regular attendance is a critical component to being successful in courses. College of the Mainland recognizes no excused absences other than those prescribed by law. There is a strong correlation between excessive absences and failing grades. It is extremely difficult to succeed in this course without having good attendance. 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. If you are absent, you are still responsible for the work that was to be finished by the next 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.

Student Learning Outcomes

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 a quiz or test will receive a zero on that quiz or test and forfeit the chance to retake. In addition, he or she will be referred to the Office of Student Conduct for further disciplinary action. For the second offense, students will be given an “F” for the class. Please read the sections on *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook. 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 in this course.

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 the Department Chair, Mr. Leslie Richardson at (409)933-8329.

Course outline:

Week	Dates	Math 1314-003	Due Dates
1	August 22 – 26	Syllabus 1.1 Introduction to Graphing 1.2 Functions and Graphs	All Week 1 assignments are due 8/28/22 by 11:59PM
2	Aug. 29 – Sept. 2	1.3 Linear Functions, Slope, and Applications 1.4 Equations of Lines 1.5 Linear Equations, Functions, Zeros, Applications Quiz 1 (Sections 1.1-1.5)	All Week 2 assignments are due 9/6/22 by 11:59PM
3	September 6 – 9	2.1 Increasing, Decreasing, and Piecewise Functions 2.2 The Algebra of Functions	All Week 3 assignments are due 9/11/22 by 11:59PM
4	September 12 – 16	2.3 The Composition of Functions 2.5 Transformations Test 1 Review	All Week 4 assignments are due 9/18/22 by 11:59PM
5	September 19 – 23	Test 1 (Chapters 1 & 2) [Available from 9/19-9/21] 3.2 Quadratic Equations, Functions, Zeros, Models 3.3 Analyzing Graphs of Quadratic Functions	All Week 5 assignments are due 9/25/22 by 11:59PM
6	September 26 – 30	4.1 Polynomial Functions 4.2 Graphing Polynomial Functions	All Week 6 assignments are due 10/02/22 by 11:59PM
7	October 3 – 7	4.3 Remainder and Factor Theorems 4.5 Rational Functions Quiz 2 (Sections 3.2, 4.3 & 4.5)	All Week 7 assignments are due 10/09/22 by 11:59PM
8	October 10 – 14	4.6 Polynomial and Rational Inequalities Test 2 Review	All Week 8 assignments are due 10/16/22 by 11:59PM
9	October 17-21	Test 2 (Chapters 3, 4)[Available from 10/17-10/19] 5.1 Inverse Functions 5.2 Exponential Functions and Graphs	All Week 9 assignments are due 10/23/22 by 11:59PM
10	October 24-28	5.3 Logarithmic Functions and Graphs Quiz 3 (Sections 5.1-5.3) 5.4 Properties of Logarithmic Functions	All Week 10 assignments are due 10/30/22 by 11:59PM
11	Oct. 31- Nov 4	5.5 Solving Exponential and Logarithmic Equations 5.6 Applications Test 3 Review	All Week 11 assignments are due 11/6/22 by 11:59PM
12	November 7-11	Test 3: Chapter 5 [Available from 11/10-11/12] 6.1 Systems of Equations in Two Variables	All Week 12 assignments are due 11/13/22 by 11:59PM
13	November 14-18	6.3 Matrices and Systems of Equations 6.2 Systems of Equations in Three Variables	All Week 13 assignments are due 11/20/22 by 11:59PM
14	November 21-23	6.4 Matrix Operations Quiz 4 (Sections 6.1-6.4)	All Week 14 assignments are due 11/27/22 by 11:59PM
15	Nov 28-Dec 2	Test 4 Review Test 4: Chapter 6 (NOV. 30) [Available from 12/1-12/3]	All Week 15 assignments are due 12/04/22 by 11:59PM
16	December 5 - 8	Review for Final Exam Final Exam [Available from 12/4-12/7]	All Week 16 assignments are due 12/07/22 by 11:59PM

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

Census Day – September 7, 2022

W-Day – November 18, 2022

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://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

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 Michelle Brezina at 409-933-8124 or mvaldes1@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 5. The last date to withdraw from the 16-week session is November 18. The last date to withdraw for the 2nd 8-week session is December 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.

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.