College of the Mainland

Department of Mathematics

Syllabus
for
Math 1314-306CL Fall 2021
College Algebra

Professor: **Jerry Linch**
E-mail: **jlinch@com.edu**

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.

Student hours: MTWRF 11:37-12:29
Virtual Office Hours: W 8:00-8:30 am

1. **Required Textbook**
   The textbook used in this course is: College Algebra, by Beecher, Penna, Bittinger, fifth edition, published by Pearson.

2. **Textbook Purchase**
   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**
   College Algebra is an in-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

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 in this course.

5. **Course Requirements**

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

   Quizzes and Exams
   There are four quizzes, four chapter 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.

6. **Determination of Course Grade**

   Grading Formula:

   The course grade will be determined by the following 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)

7. **Make-up policy**
   You will be given two days to take a chapter exam and three days to take the final exam. If you are unable to make a scheduled exam within days specified in the course outline, **you will be allowed to make up the exam provided that you notify the instructor before the end of the scheduled exam period and have a legitimate reason for not be able to take the exam**.

8. Course Outline

Month	Week	Day		Topic	Sections
				Dual Credit - College Algebera - Fall 2021	
Aug	1	23	Mon	Introduction to Graphs	1.1
		25	Wed	Functions and Graphs	1.2
		27	Fri	Linear Functions	1.3
Sep	2	30	Mon	Equations of Lines	1.4
		1	Wed	Linear Functions, Zeros	1.5
		3	Fri	Lab Day	Lab
	3	6	**Mon**	**Student Holiday**	**Holiday**
		8	Wed	Algebra of Functions	2.2
		10	Fri	Composition	2.3
	4	13	Mon	Transformations	2.5
		15	Wed	Review Chapters 1 and 2	Review
		17	Fri	Review Chapters 1 and 2	Review
	5	20	**Mon**	**Student Holiday**	**Holiday**
		21	**Tue**	**Exam - Chapter 1-2**	**EXAM**
		22	**Wed**	**Exam - Chapter 1-2**	**EXAM**
		24	Fri	Quadratic Functions	3.2
	6	27	Mon	Graphs of Quadratic Functions	3.3
		29	Wed	Polynomial Functions	4.1
Oct		1	Fri	Lab Day	Lab
	7	**4**	Mon	Graphs of Polynomial Functions	4.2
		6	Wed	Remainder, Factor Theorems	4.3
		8	Fri	Rational Functions	4.5
	8	11	Mon	Polynomial Inequalities	4.6
		13	Wed	Review Chapters 3 and 4	Review
		15	Fri	Review Chapters 3 and 4	Review
	9	18	**Mon**	**Exam 2: Chapter 3, 4**	**EXAM**
		19	**Tue**	**Exam 2: Chapter 3, 4**	**EXAM**
		20	Wed	Inverse Functions	5.1
		22	Fri	Exponential Functions	5.2
	10	25	Mon	Logarithmic Functions	5.3
		27	Wed	Properties of Log Functions	5.4
		29	Fri	Exponential, Log Equations	5.5
Nov	11	**1**	**Mon**	**Student Holiday**	**Holiday**
		3	Wed	Modeling	5.6
		5	Fri	Lab Day	Lab
	12	8	Mon	Review Chapter 5 (Part 1)	Review
		9	Tue	Review Chapter 5 (Part 2)	Review
		10	**Wed**	**Exam 3: Chapter 5**	**EXAM**
		11	**Thur**	**Exam 3: Chapter 5**	**EXAM**
		12	Fri	Lab Day	Lab
	13	15	Mon	Solving Linear Systems	6.1
		17	Wed	Applications	6.2
		19	Fri	Solving Linear Systems	6.3
	14	**22-26**	**MTWRF**	**Thanksgiving Holiday**	**Holiday**
	15	29	Mon	Matrix Operations	6.4
		30	Tue	Review Chapter 6 (Part 1)	Review
Dec		1	Wed	Review Chapter 6 (Part 2)	Review
		2	**Thur**	**Exam 4: Chapter 6**	**EXAM**
		3	**Fri**	**Exam 4: Chapter 6**	**EXAM**
	16	6	Mon	Review Final Exam	Review
		7	Tue	Review Final Exam	Review
		8	**Wed**	**Final Exam**	**FINAL**
		9	**Thur**	**Final Exam**	**FINAL**
				*** W-day: November 19 ***	

9. **Attendance Policy**
   You must log in and be active in MyMathLab at least three times each 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 only permitted to withdraw six times during their college career by State law. The last day to is November 19th.

11. **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.

12. **Early Alert Program**
    The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success is 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.

13. **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.

14. **Concerns about the Instructor**
    If you have any questions or concerns about any aspect of this course, please contact me at jlinch@com.edu.   If, after discussing your concern with me, you continue to have questions, please contact Dr. Rocky Barney at (409) 933-8329 or rbarney@com.edu

15. **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 1
2. Recognize and apply polynomial, rational, exponential and logarithmic functions and solve related equations.	Critical Thinking Skills (CT)	Exam 2
3. Apply graphing techniques.	Visual Communication Skills (CS)	Quiz 3
4. Evaluate all roots (zeros) of higher degree polynomials and rational functions.	Critical Thinking Skills (CT)	Quiz 2
5. Recognize, solve and apply systems of linear equations using matrices.	Empirical and Quantitative Skills (EQS)	Exam 4

16. **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

17. **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.

18. **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.

19. **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.

20. **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.