Department of Mathematics

Syllabus
for
MATH 1314.102CL
College Algebra
Summer II 2022
MTWTRF 11:00am-1:30pm in STE RM 115

Professor: Jessica Smith

E-mail: Jsmith56@com.edu

Office Hours: 10:45am-11:00am MTWTH

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

A graphing calculator is needed for this course. A Texas Instrument TI-83 Plus or TI-84 Plus is recommended. A TI-89 or higher cannot be used in this course.
You will need access to the internet to gain access to course materials using the MyMathLab software. If you do not have your own internet access. You can get access on your campus in the Innovations computer Lab, TVB 1324, the Library and the Tutoring Center, TVB 1310.

2. 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.

3. Course Requirements

Homework:
There is an assigned homework for each section to be completed online using MyMathLab, MML. The due dates are shown next to the assignments in the Assignment folder in MML.

Quizzes and Exams:
There are four quizzes, 4-chapter-exams and a comprehensive final exam. All quizzes are done online using MML and the chapter exams are taken in-class. 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.**

4. **Determination of Course Grade/ Detailed Grading Formula**

   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. **Make-up policy:**
   If you are unable to make a scheduled exam, you will be allowed to make up the exam outside of class provided you notify the instructor prior to the exam and have a legitimate reason for the absence. All makeup exams must be taken in the Testing Center by appointment.

6. **Attendance Policy:**
   Attendance is required. See catalog for exceptions. You are required to on time and must stay the entirety of the class time to be considered present for the day. It is expected that you will log in and be active in MyMathLab daily. In addition to time spent in doing homework, taking quizzes and exams it will be necessary to study, using the course materials, to be successful in the class.

7. **Smartphone Use/ Computer Use:**
   Cell phones and computer use is strictly prohibited during all class sessions. They must be turned off and not used in any manner during class.

8. **Communication with your instructor:**

   <u>All electronic communication with the instructor must be through your COM email</u>. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. **The email account used to register for MyMathLab must be your COM email.**

9. **Table Mappings SLO's and Core Objectives**

Student Learner Outcomes	SLO assessed via this assignment	SLO maps to Core Objective	Core Objective assessed via this assignment
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.	Exam 1		
2. Recognize and apply polynomial, rational, exponential and logarithmic functions and solve related equations.	Exam 2, Exam 3	Critical Thinking Skills (CT)	2 application problems on Exam 3
3. Apply graphing techniques.	Quiz 3	Communication Skills (CB)	Graphing question on Exam 1
4. Evaluate all roots (zeros) of higher degree polynomials and rational functions.	Quiz 2		
5. Recognize, solve and apply systems of linear equations using matrices.	Exam 4	Empirical and Quantitate Skills (EQS)	2 application problems on Exam 4

10. **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 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.

11. **Concerns about the Instructor:**

    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 concerns with me, you continue to have questions, please contact the Department Chair for Math & Computer Science, Leslie Richardson, at (409) 933-8329, lrichardson@com.edu.

12. Course Outline

Week	Topic	Sections	Due Date
1	Introduction to Graphs	1.1	
	Functions and Graphs	1.2	
	Linear Functions, Equations of Lines	1.3, 1.4	
	Linear Functions, Zeros	1.5	
	Inc, Dec, Piecewise Functions	2.1	
	Quiz 1: Sections 1.1-1.5		July 15
	Algebra of Functions, Composition	2.2, 2.3	
	Composition, Transformations	2.3, 2.5	
2	**Review**		
	Exam 1: Chapter 1, 2		**July 18**
	Quadratic Functions	3.2	
	Graphs of Quadratic Functions	3.3	
	Polynomial Functions	4.1	
	Graphs of Polynomial Functions	4.2	
	Remainder, Factor Theorems	4.3	
	Poly Inequalities, Rational Functions	4.6, 4.5	
	Quiz 2: Finding Zeros. Sections 3.2, 4.3, 4.5		**July 24**
3	**Review**		
	Exam 2: Chapter 3, 4		**July 25**
	Inverse Functions	5.1	
	Exponential Functions	5.2	
	Logarithmic Functions	5.3	
	Quiz 3: Graphing Techniques. Sections 5.1-5.3		
	Properties of Log Functions	5.4	
	Exponential, Log Equations	5.5	
	Modeling, Review	5.6	July 31
4	**Review**		
	Exam 3: Chapter 5		**Aug 1**
	Solve Linear Systems	6.1, 6.3	
	Applications	6.2	
	Matrix Operations	6.4	
	Quiz 4: Sections 6.1-6.4		Aug 7
5	**Review**		
	Exam 4: Chapter 6		**Aug 8**
	Review		
	Final Exam		**Aug 11**

Important Dates:
7/14- Census Date
8/5-"W-Day"
8/12-Last Class Day

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 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.

Counseling Statement: Any student 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 set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

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 from the 1st 5-week session is July 1. The last date to withdraw from the 10-week session is August 1. The last date to withdraw from the 2nd 5-week session is August 5.

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.

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.

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 www.com.edu/coronavirus for future updates.

Pearson | MyLab | Math

Student Registration Instructions

To register for College Algebra (MATH 1314-102CL) Summer II:

1. Go to https://mlm.pearson.com/enrollment/smith36008

2. Sign in with your Pearson student account or create your account.

   For Instructors creating a Student account, do not use your instructor credentials.

3. Select any available access option, if asked.

   » Enter a prepaid access code that came with your textbook or from the bookstore.

   » Buy instant access using a credit card or PayPal.

   » Select **Get temporary access without payment for 14 days**.

4. Select **Go to my course**.

5. Select **College Algebra (MATH 1314-102CL) Summer II** from My Courses.

If you contact Pearson Support, give them the course ID: smith36008

To sign in later:

1. Go to https://mlm.pearson.com

2. Sign in with the same Pearson account you used before.

3. Select **College Algebra (MATH 1314-102CL) Summer II** from My Courses.