Math 1324.037IN
Math for Business and Social Science
Spring 2022
Online Course

Instructor Information: James Griffiths jgriffiths@com.edu 409-933-8225
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Student hours and location: MW 4:00 pm – 5:30 pm
TTh 8:00 am – 9:30 am, 11:00 am – 12:30 am
All student hours are in my office, 325-08 in the STEAM building.
Math 1332.001IN will also have Virtual Office Hours from 4:00 pm – 5:00 pm Tuesday and Thursday using the Live Sessions tab on Blackboard.

Required Textbook: The textbook is Finite Mathematics with Applications, 12th edition, by Goldstein, Schneider and Siegel, Pearson Publishing Company. The access code for MyMathLab may be purchased with the textbook or may be purchased separately at mymathlab.com. You need the access code and the course code (the course code is **griffiths00148**) to gain access to MyMathLab today.

Course Description: Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication will be embedded throughout the course.

Course requirements:
Technology: A Texas Instruments TI84 plus is required for this course. You will need access to the internet to use MyMathLab. If you do not have a computer and/or dependable internet access, contact your professor immediately so that you can discuss any options that may be available to you either through the college or the community.

Homework Assignments on MyMathLab: There is a homework assignment for each unit covered. These are listed on the course outline in this syllabus. 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 MyMathLab. You should do the assignments as soon as possible after reading the appropriate section in the text book, and watching the associated video(s) on MyMathLab. 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 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 peers, your professor, or the college tutoring center. The student has a limit of three attempts to answer a question correctly on the homework assignments.

Quizzes on MyMathLab: Four quizzes which relate to the student learning outcomes, will be taken on MyMathLab. Like the homework assignments, the due dates are shown on both the course outline in this syllabus and on the assignment list on MyMathLab. 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 on MyMathLab: There are four exams which cover the chapters in the text book. The exams are taken on MyMathLab and must be finished no later than the due dates shown on the course outline in this syllabus and on the assignment list on MyMathLab. The student has two hours 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 on MyMathLab: The final exam is taken on MyMathLab and must be finished no later than the due date shown on the course outline in the syllabus and on the assignment list on MyMathLab. The student has two hours to take the final exam. The final exam may not be retaken.

Determination of Course Grade/Detailed Grading Formula:

Homework Average	10%
Quiz Average	10%
Average of Chapter Exams	60%
Comprehensive Final Exam	20%
Final Average	100%

Grade I: Given unforeseen circumstances that result in the student's inability to successfully complete the course objectives, an I-Contract may be requested from the instructor assuming the following criteria have been met:

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 related exam will be given a grade of zero at that time.

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.

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 enrolled in this course are required to sign on to MyMathLab and work on their assignments a minimum of two times each week during the semester. Most students regularly exceed this minimum requirement. Students who fail to meet this requirement will be considered absent and 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. Be sure to include your name, the course in which you are enrolled, and state your question completely. I do not reply to text messages, so do not bother with them.

Table Mapping SLO's and Core Objectives:

Student Learner Outcomes	Maps to Core Objective	Assessed via this assignment
1. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.	Empirical and Quantitative Skills (EQS)	Exam
2. Apply basic matrix operations, including linear programming methods, to solve application problems.	Critical Thinking Skills (CT)	Exam
3. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.	Visual Communication Skills (CS)	Exam
4. Apply matrix skills and probability analyses to model applications to solve real-world problems.	Critical Thinking Skills (CT)	Quiz

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:

Week	Date	Sections
6	2/21	*Math 0315*
	2/23	3.1 Functions Due 2/28
		3.2 Graphs of Functions Due 2/28
		3.3 Applications of Linear Functions Due 2/28
	2/25	*Math 0315*
7	2/28	3.4 Quadratic Functions and Applications Due 3/4
		3.5 Polynomial Functions Due 3/4
		3.6 Rational Functions Due 3/4
		Quiz 1 (3.1 – 3.6) Due 3/4
	3/2	4.1 Exponential Functions Due 3/7
		4.2 Applications of Exponential Functions Due 3/7
	3/4	*Math 0315*
8	3/7	4.3 Logarithmic Functions Due 3/11
		4.4 Logarithmic and Exponential Equations Due 3/11
	3/9	5.1 Simple Interest and Discount Due 3/11
		5.2 Compound Interest Due 3/11
		Review for Exam 1 Due 3/21
	3/11	*Math 0315*
	3/14	SPRING BREAK
	3/16	SPRING BREAK
	3/18	SPRING BREAK
9	3/21	**Exam 1 (3.1 – 4.4) Due 3/21**
		5.3 Anuities, Future Value, and Sinking Funds Due 3/25
		5.4 Annuities, Present Value, and Amortization Due 3/25
		Quiz 2 (5.1 – 5.4) Due 3/25
	3/23	6.1 Systems: 2 Linear Equations in 2 Variables Due 3/28
		6.2 Larger Systems of Linear Equations Due 3/28
		6.3 Applications of Systems of Linear Equations Due 3/28
	3/25	*Math 0315*
10	3/28	6.4 Basic Matrix Operations Due 4/1
		6.5 Matrix Products and Inverses Due 4/1
	3/30	7.1 Graphing Linear Inequalities in Two Variables Due 4/4
		Review for Exam 2 Due 4/4
	4/1	*Math 0315*

11	4/4	**Exam 2 (5.1 – 6.5) Due 4/4**
		7.2 Linear Programming: The Graphing Method Due 4/8
		7.3 Applications of Linear Programming Due 4/8
	4/6	7.4 The Simplex Method: Maximization Due 4/11
		7.5 Maximization Applications Due 4/11
		Quiz 3 (7.2 – 7.5) Due 4/11
	4/8	*Math 0315*
12	4/11	8.1 Sets Due 4/13
		8.2 Apps: Venn Diagrams, Contingency Tables Due 4/13
		8.3 Introduction to Probability Due 4/13
	4/13	8.4 Basic Concepts of Probability Due 4/18
		8.5 Conditional Probability and Independent Events Due 4/18
	4/15	HOLIDAY
13	4/18	8.6 Bayes Formula Due 4/22
		Review for Exam 3 Due 4/22
	4/20	**Exam 3 (7.1 – 8.6) Due 4/22**
		9.1 Probability Distributions and Expected Value Due 4/25
		9.2 Multiplication Principle, Permutations, Combinations Due 4/25
	4/22	*Math 0315*
14	4/25	9.3 Applications of Counting Due 4/29
		9.4 Binomial Probability 4/29
		Quiz 4 (9.1 – 9.4) Due 4/29
	4/27	10.1 Frequency Distributions Due 5/2
		10.2 Measures of Center Due 5/2
	4/29	*Math 0315*
15	5/2	Review for Exam 4 Due 5/4
	5/4	**Exam 4 (9.1 – 10.2) Due 5/4**
	5/6	*Math 0315*
16	5/9	Review for Comprehensive Final Exam Due 5/11
	5/11	**Comprehensive Final Exam Due 5/11**

**** W-Day: April 25, 2022 ****

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://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 withdraw from the first 8-week session is March 2. The last date to withdraw from the 16-week session is April 25. The last date to withdraw from the second 8-week session is May 4.

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 com.edu/coronavirus for future updates.

Success Tips:
Schedule your study time and be diligent in sticking with it. It is recommended that you allocate two hours outside of class for each hour in class.
Find a study partner.
Studying with another person can help keep you motivated and on task.
Be an active learner.
Attend all your classes and be on time.
Listen carefully, take good notes and participate in class.
Review your class notes regularly
Read the textbook.
Do all the assignments.
Study for all the exams using the reviews provided. Rework homework problems.
Seek help when something is unclear, don't put it off.
Have a positive attitude. You can learn math!
Use resources that are available.
Use the instructor's office hours.
Use the free tutoring that is available in the Math Lab, TVB 1306.

For a complete list of study skills for mathematics, see the Study Skills tab on MyMathLab.

To Read the e-text on MyMathLab,
Log onto MyMathLab.
Click on your course.
Click on **Multimedia Library** on the menu on the left.
Select the chapter using the drop down menu.
Check the **Multimedia Textbook** box. Click **Find Now**.
Scroll down. Click on the section you wish to read.
Begin reading.
You can move forward or backward through the pages using the right arrow or left arrow at the top of the page toward the left.

To Watch a Video on MyMathLab,
Log onto MyMathLab.
Click on your course.
Click on **Multimedia Library** on the menu on the left.
Select the chapter using the drop down menu.
Select the unit using the drop down menu.
Check the section video lecture box **and** the video box. Click **Find Now**.
Click on the video title you wish to watch, (there may be more than one).

To do a homework assignment on MyMathLab,

1. Log into My Math Lab:

- Go to www.mymathlab.com
- Click the Log In button and enter your Login Name and Password
- Click on the appropriate class
- Click on the ALL ASSIGNMENTS button
- Click on the homework assignment or quiz you wish to do.

2. Read the question and instructions for entering the answer carefully, and show all appropriate work in your notebook.
3. Enter your answer in the box provided, and then click the CHECK ANSWER button.
4. If needed, click the SIMILAR EXERCISE button to redo the exercise.
5. If the submitted answer is correct, click on the SAVE button to send your results to the gradebook. Your grade will show up in the GRADEBOOK and will be automatically accessible by both you and your professor.
6. Click on the next question to continue.