



MATH 1324-304CL
Math for Business and Social Sciences
Spring 2024
9:38– 10:30 MTWRF

Instructor Information: Christopher Billot, email: cbillot@com.edu, office number: 281-482-3413

Student hours and location:

Class hours: MTWRF from 9:38 am-10:30 am in room 1469
 Office hours: MTWRF from 8:00 am-8:30 am in room 1469
 MTWRF from 12:30 pm – 2:00 pm in room 2402
 MTWR from 4:00 pm – 4:30 pm at FHS Library

Required Textbook/Materials:

Textbook: Finite Mathematics with Applications, twelfth edition, by Lial, Hungerford, Holcomb, and Mullins and appropriate Math Lab account.
 Calculator: TI 83 Plus or TI-84 plus is **recommended**
 TI-89, TI Nspire, or higher is **prohibited**.

Course Description: The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities, systems of linear equations, linear programming, and probability, including expected value.

Course requirements:

Homework Assignments

There is assigned homework for each section to be done online using MyMathLab. Students are expected to have their work completed by the due date. Late work will not be accepted.

Quizzes and Exams

There are four quizzes to be done online using MyMathLab. You need to show work on paper that will be turned in to the instructor. You can retake each quiz just once to improve your score; the highest score will be the one that counts. There will be one algebra review exam, four chapter exams and a comprehensive final. There are no retakes on any of the exams.

Grading Formula:

The course grade will be determined by the following formula:

Final Average:	64%	Chapter Exam Average	Grading Scale:	Grade A: Final Average [89.5 – 100]
	16%	Final Exam		Grade B: Final Average [79.5 – 89.5]
	10%	Homework Average		Grade C: Final Average [69.5 – 79.5]
	10%	Quiz Average		Grade D: Final Average [59.5 – 69.5]
				Grade F: Final Average [0 – 59.5]

The Final Exam score will replace the lowest Chapter Exam Score when it is larger.

Late Work, Make-Up, and Extra-Credit Policy:

Will be determined at the discretion of the instructor based on the circumstances of the student. If you are unable to make a scheduled chapter 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.**

Attendance Policy: Attendance and classroom participation is required. Excessive absenteeism may result in a student being withdrawn from the course. More than three absences is considered excessive.

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. (Faculty may add additional statement requiring monitoring and communication expectations via Blackboard or other LMS.)

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.

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 on *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook.

Student Concerns: If you have questions or concerns about any aspect of this course, please contact me at cbillot@com.edu. If after discussing your concern with me and you continue to have questions, please contact Dr. Leslie Richardson at (409) 933-8329 or lrichardson@com.edu.

Course outline: (include calendar with lecture topics, due dates)

Math 1324 Math for Business and Social Sciences Spring 2024 Calendar

Month	Week	Date	Day	Topic	Sections
January	1	8	Monday	Student Holiday	Holiday
		9	Tuesday	Introductions to Class	Intro
		10	Wednesday	Purchase Math Lab	Intro
		11	Thursday	Functions	3.1
	12	Friday	Lab Day	Lab	
	2	15	Monday	Student Holiday	Holiday
		16	Tuesday	Graphs and Functions	3.2
		17	Wednesday	Lab Day	Lab
		18	Thursday	Linear Functions	3.3
		19	Friday	Lab Day	Lab
	3	22	Monday	Quadratic Functions	3.4
		23	Tuesday	Lab Day	Lab
		24	Wednesday	Polynomial Functions	3.5
		25	Thursday	Lab Day	Lab
	26	Friday	Quiz 1 (Ch. 3)	Lab	
	4	29	Monday	Exponential Functions	4.1
30		Tuesday	Lab Day	Lab	
31		Wednesday	Applications of Exponential Functions	4.2	
February	1	Thursday	Lab Day	Lab	
		2	Friday	Logarithmic Functions	4.3
	5	5	Monday	Logarithmic and Exponential Equations	4.4
		6	Tuesday	Lab Day	Lab
		7	Wednesday	Review for Exam 1	Review
	8	Thursday	Exam 1 (Ch. 3 & 4)	Exam	
	9	Friday	Exam 1 (Ch. 3 & 4)	Exam	
	6	12	Monday	Simple Interest and Discount	5.1
		13	Tuesday	Lab Day	Lab
		14	Wednesday	Compound Interest	5.2
15		Thursday	Lab Day	Lab	
16	Friday	Annuities, Future Value, and Sinking Funds	5.3		
7	19	Monday	Student Holiday	Holiday	
	20	Tuesday	Annuities, Present Value, and Amortization	5.4	
	21	Wednesday	Lab Day	Lab	
	22	Thursday	Quiz 2 (Ch.5)	Quiz	
8	23	Friday	Systems of Two Linear Equations in Two Variables	6.1	
	26	Monday	Larger Systems of Linear Equations	6.2	
	27	Tuesday	Lab Day	Lab	
	28	Wednesday	Applications of Systems of Linear Equations	6.3	
29	Thursday	Lab Day	Lab		
March	9	1	Friday	Basic Matrix Operations	6.4
		4	Monday	Matrix Products and Inverses	6.5
		5	Tuesday	Lab Day	Lab
	6	Wednesday	Review for Exam 2	Review	
	7	Thursday	Exam 2 (Ch. 5 & 6)	Exam	
	8	Friday	Exam 2 (Ch. 5 & 6)	Exam	
10	11-15	MTWHF	SPRING BREAK – Student Holiday	Holiday	

Month	Week	Date	Day	Topic	Sections
March	11	Monday	18	Graphing Linear Inequalities in Two Variables	7.1
		Tuesday	19	Lab Day	Lab
		Wednesday	20	Linear Programming: The Graphical Method	7.2
		Thursday	21	Lab Day	Lab
		Friday	22	Applications of Linear Programming	7.3
	12	Monday	25	The Simplex Method: Maximization	7.4
		Tuesday	26	Lab Day	Lab
		Wednesday	27	Maximization Applications	7.5
		Thursday	28	Quiz 3 (Ch.7)	Quiz
		Friday	29	Student Holiday	Holiday
April	13	Monday	1	Sets	8.1
		Tuesday	2	Lab Day	Lab
		Wednesday	3	Applications of Venn Diagrams and Contingency Tables	8.2
		Thursday	4	Lab Day	Lab
		Friday	5	Introduction to Probability	8.3
	14	Monday	8	Basic Concepts of Probability	8.4
		Tuesday	9	Lab Day	Lab
		Wednesday	10	Conditional Probability and Independent Events	8.5
		Thursday	11	Lab Day	Lab
	15	Friday	12	Bayes' Formula	8.6
		Monday	15	Review for Exam 3	Review
		Tuesday	16	Review for Exam 3	Review
Wednesday		17	Exam 3 (Ch. 7 & 8)	Exam	
Thursday		18	Exam 3 (Ch. 7 & 8)	Exam	
16	Friday	19	Student Holiday	Holiday	
	Monday	22	Probability Distributions and Expected Value	9.1	
	Tuesday	23	The Multiplication Principle, Permutations, and Combinations	9.2	
	Wednesday	24	Applications of Counting	9.3	
	Thursday	25	Binomial Probability	9.4	
	Friday	26	Quiz 4 (Ch. 9)	Quiz	
	17	Monday	29	Frequency Distributions	10.1
Tuesday		30	Measures of Center	10.2	
Wednesday		1	Review for Exam 4	Review	
Thursday		2	Exam 4 (Ch. 9 & 10)	Exam	
Friday		3	Exam 4 (Ch. 9 & 10)	Exam	
May	18	Monday	6	Review for Final Exam	Review
		Tuesday	7	Review for Final Exam	Review
		Wednesday	8	Final Exam	Exam
		Thursday	9	Final Exam	Exam
Friday	10	Finalize Grades			

W-Day: April 22, 2024

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 the 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 February 28. The last date to withdraw from the 16-week session is April 22. The last date to withdraw for the 2nd 8-week session is May 1. The last date to withdraw for the spring mini-session is May 29.

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, and 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.