



MATH 1324-304C3
Math for Business and Social Sciences
Fall 2025

Instructor Information: Christopher Billot, cbillot@com.edu, 281-482-3413 ext. 3654

Student hours and location:

Class hours: MTWRF from 2:09 pm – 2:59 pm in room 2429

Office hours: MTWRF from 7:40 am – 9:30 am/11:17 am - 11:47 am/3:55 pm – 4:20 pm in room 2429

Required Textbook/Materials:

1. Textbook: Finite Mathematics with Applications, 13th edition, by Lial, Hungerford, Holcomb, and Mullins, Pearson Publishing Company.
2. Access to a desktop computer or laptop and internet service outside of class is required to gain access to the necessary online assignments.
3. MyLab Math(MLM) software is required for Math 1324.
4. MyLab provides access to the eText for the textbook and all course assignments. **(No Purchase Necessary)**
5. A Texas Instruments TI30XIIS scientific calculator is recommended. Graphing calculators may not be used on exams.

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

Course requirements:

MyLab Math (MLM) Online Assignments – Go to your Brightspace course. You can access **D2L Brightspace at COM** at <http://com.brightspace.com>.

- **Homework:** Homework assignments will be given each week for every section covered in the course. Homework assignments will count as 10% of your final grade.
- **Quizzes:** Four quizzes will be given online using MyLab. You need to show work on paper that will be turned in to the instructor. You retake each quiz just once to improve your score. The retake must be completed on the same day that the quiz was given. You will have until the end of the day to complete the retake. The highest score from either the original or retake will be the one that counts. Cumulatively, the quizzes will count as 10% of your final grade.
- **Exams:** Three exams will be given, and you will be provided with a review to prepare for each exam. The exams will be taken in person and on paper. Each exam will count as 20% of your final grade.
- **Final Exam:** The comprehensive final exam will be given at the end of the course during Week 16. The final exam will count as 20% of your final grade and will replace your lowest exam grade if it is higher.

Grading Formula:

The course grade will be determined by the following formula:

Final Average:	60%	Chapter Exam Average	Grading Scale:	Grade A: Final Average [89.5 – 100]
	20%	Final Exam		Grade B: Final Average [79.5 – 89.5)
	10%	Quiz Average		Grade C: Final Average [69.5 – 79.5)
	10%	Homework Average		Grade D: Final Average [59.5 – 69.5)
				Grade F: Final Average [0 – 59.5)

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

- **Homework/Quizzes:** 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 associated exam will be given a grade of zero at the time the exam is given. If a homework assignment or quiz has been partially completed by this deadline, the grade on the assignment (less 20%) will be applied to the homework assignment or quiz.
- **Unit Exams:** 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, such as the death of a close family member, or the student's admission to the hospital. (Transportation problems, minor illness, or scheduled doctor appointments are not extraordinary reasons for missing an exam.) Students will not be permitted to make up more than one exam. If a student makes up an exam, the final exam will no longer replace the lowest exam grade.
- **Extra Credit:** Three points extra credit is given on exams if the student earns a score of 100 on the review. Extra-credit assignments may also be given throughout the course at the discretion of the instructor. Extra credit is never given at the end of the semester to bring up a poor grade. Do not even ask.

Attendance Policy: Students at COM are expected to attend and participate in every session of all classes for which they are registered. College of the Mainland recognizes no excused absences other than those prescribed by law. Students with excessive absences will be referred to Student Services. Students should consult the information provided in MyLab Math and the course calendar when it becomes necessary to miss a class to be prepared when they return to class. The student is still responsible for work that is assigned during an absence and due dates still hold.

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, but do not leave a message on my phone. If you cannot reach me by phone, email me. Be sure to include your name, the course in which you are enrolled, and state your question completely.

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. Read the sections of 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 Mr. Leslie Richardson at (409) 933-8329 or lrichardson@com.edu.

Additional Policies

Productive Workplace

Students are expected to bring all tools necessary for success to class every day. These tools include writing implements, notebook/note paper, and an approved calculator. All other items (backpacks, purses, bags, laptops, etc.) must be placed under your desk. In addition, headsets/wireless earbuds are to be placed in your backpacks and cell phones will need to be placed in the cellphone rack before class starts.

Recording of Class

Students may not record all or part of a class and/or part of a livestream without the advanced written consent of the instructor. If you have or think you have a disability such that you need to record class-related activities, please contact the Student Disability Services. If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this course or not, or with any other person or on any other platform. If any instructor's recordings are provided, students may use the instructor's recordings for their studying and notetaking. Instructor's recordings are not authorized to be shared with anyone without the prior written approval of the instructor. Failure to comply with requirements regarding recording results in a disciplinary referral and/or disciplinary action.

Testing Policy

1. Prohibited devices include, but are not limited to:
 - Cell phones and smart watches
 - Audio players/recorders, tablets, laptops, notebooks, or any other personal computing devices
 - Cameras or any other photographic equipment
 - Any devices, including digital watches, that can be used to record, transmit, receive, or play back audio, photographic, text, or video content.
 - Graphing calculators
2. If your device makes a sound or is in your possession when the device goes off, you may be dismissed, and your score may be recorded as a zero.
3. **If you leave the classroom at any time during an exam, the exam must be submitted for grading.**
 - Therefore, it is strongly advised that students take care of all personal business prior to entering the classroom to take an exam.

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

Math 1324 Math for Business and Social Sciences Fall 2025 Calendar

Month	Week	Date	Day	Topic	Sections
August	1	11	Monday	Student Holiday	Holiday
		12	Tuesday	Introductions to Class	Intro
		13	Wednesday	Simple Interest and Discount	5.1
		14	Thursday	Compound Interest	5.2
		15	Friday	Lab Day	Lab
	2	18	Monday	Annuities, Future Value, and Sinking Funds	5.3
		19	Tuesday	Lab Day	Lab
		20	Wednesday	Annuities, Present Value, and Amortization	5.4
		21	Thursday	Lab Day	Lab
		22	Friday	Quiz 1 (Ch. 5)	Quiz
	3	25	Monday	Systems of Two Linear Equations in Two Variables	6.1
		26	Tuesday	Larger Systems of Linear Equations	6.2
		27	Wednesday	Lab Day	Lab
		28	Thursday	Applications of Systems of Linear Equations	6.3
		29	Friday	Lab Day	Lab
September	4	1	Monday	Student Holiday	Holiday
		2	Tuesday	Basic Matrix Operations	6.4
		3	Wednesday	Lab Day	Lab
		4	Thursday	Matrix Products and Inverses	6.5
		5	Friday	Lab Day	Lab
	5	8	Monday	Review for Exam 1	Review
		9	Tuesday	Review for Exam 1	Review
		10	Wednesday	Exam 1 (Ch. 5 & 6)	Exam
		11	Thursday	Exam 1 (Ch. 5 & 6)	Exam
		12	Friday	Graphing Linear Inequalities in Two Variables	7.1
	6	15	Monday	Lab Day	Lab
		16	Tuesday	Linear Programming: The Graphical Method	7.2
		17	Wednesday	Lab Day	Lab
		18	Thursday	Applications of Linear Programming	7.3
		19	Friday	Lab Day	Lab
	7	22	Monday	Student Holiday	Holiday
		23	Tuesday	The Simplex Method: Maximization	7.4
		24	Wednesday	The Simplex Method: Maximization	7.4
		25	Thursday	Lab Day	Lab
		26	Friday	Maximization Applications	7.5
	8	29	Monday	Lab Day	Lab
		30	Tuesday	Quiz 2 (Ch. 7)	Quiz
	9	1	Wednesday	Sets	8.1
		2	Thursday	Applications of Venn Diagrams and Contingency Tables	8.2
		3	Friday	Lab Day	Lab
October	9	6	Monday	Introduction to Probability	8.3
		7	Tuesday	Basic Concepts of Probability	8.4
		8	Wednesday	Lab Day	Lab
		9	Thursday	Conditional Probability and Independent Events	8.5
		10	Friday	Lab Day	Lab
	10	13	Monday	Bayes' Formula	8.6
		14	Tuesday	Quiz 3 (Ch. 8)	Quiz
		15-17	W/R/F	Student Holiday	Holiday

Month	Week	Date	Day	Topic	Sections
October	11	20	Monday	Student Holiday	Holiday
		21	Tuesday	Probability Distributions and Expected Value	9.1
		22	Wednesday	Lab Day	Lab
		23	Thursday	Multiplication Principle, Permutations, and Combinations	9.2
		24	Friday	Lab Day	Lab
	12	27	Monday	Applications of Counting	9.3
		28	Tuesday	Review for Exam 2	Review
		29	Wednesday	Review for Exam 2	Review
		30	Thursday	Exam 2 (Ch. 7, 8, & 9)	Exam
		31	Friday	Exam 2 (Ch. 7, 8, & 9)	Exam
November	13	3	Monday	Functions	3.1
		4	Tuesday	Graphs of Functions	3.2
		5	Wednesday	Applications of Linear Functions	3.3
		6	Thursday	Quadratic Functions and Applications	3.4
		7	Friday	Polynomial Functions	3.5
		10	Monday	Rational Functions	3.6
	14	11	Tuesday	Quiz 4 (Ch. 3)	Quiz
		12	Wednesday	Exponential Functions	4.1
		13	Thursday	Applications of Exponential Functions	4.2
		14	Friday	Logarithmic Functions	4.3
		17	Monday	Logarithmic and Exponential Equations	4.4
	15	18	Tuesday	Review for Exam 3	Review
		19	Wednesday	Review for Exam 3	Review
		20	Thursday	Exam 3 (Ch. 3 & 4)	Exam
		21	Friday	Exam 3 (Ch. 3 & 4)	Exam
	16	24-28	MTWRF	Thanksgiving Break	Holiday
December	17	1	Monday	Review for Final Exam	Review
		2	Tuesday	Review for Final Exam	Review
		3	Wednesday	Final Exam	FINAL
		4	Thursday	Final Exam	FINAL
		5	Friday	Finalize Grades	

W-Day November 14, 2025

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 at <https://www.com.edu/student-services/student-handbook.html>. 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 are requested to contact:

Kimberly Lachney, Student Accessibility Services Coordinator

Phone: 409-933-8919

Email: AccessibilityServices@com.edu

Location: COM Doyle Family Administration Building, 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 before 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 1. The last date to withdraw from the 16-week session is November 14. The last date to withdraw for the 2nd 8-week session is November 25.

FN Grading: The FN grade is issued when a student fails due to insufficient 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.

Nondiscrimination Statement:

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.