

Math 1324.101H1 Mathematics for Business & Social Sciences Spring 2025 STEAM Building, Room 119 MW 8:00 - 10:50am

Instructor Information: Theophilus Boye, <u>tboye@com.edu</u>, 409-933-**8758** Include your course & section in the subject line when emailing

Student hours: MW: 11:00 - 2:00pm **TTh**: 4.30 - 5:30pm

Office location: STEAM 325-3

Required Textbook/Materials: Minimally, you are required to purchase the access code for MyLab Math to access the eText for the textbook and all course assignments. A hard copy of the textbook is recommended, but not required.

ISBN: 9780134767611 Title: Finite Mathematics with Applications in the Management, Natural, and Social Sciences Author: Lial, Hungerford, Holcomb, and Mullins Edition: 13 Copyright: 2019 Publisher: Pearson

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; matrices; linear programming; and probability, including expected value.

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Grading Formula:

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1.	Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real- world problems	Critical Thinking Skills (CT)	Exam
2.	Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.	Empirical and Quantitative Skills (EQS)	Exam
3.	Apply basic matrix operations, including linear programming methods, to solve application problems.	Critical Thinking Skills (CT)	Exam
4.	Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.	Visual Communication Skills (CS)	Exam
5.	Apply matrix skills and probability analyses to model applications to solve real- world problems.	Critical Thinking Skills (CT)	Quiz

Course Outline (Tentative):

		In-Class Instruction	Independent Study /Online	Due
1	М	Orientation 5.1 Simple Interest and Compound Interest 5.2 Annuities, Future Value, and Sinking Funds	5.3 Consumer loans & AmortizationQuiz 1: Chapter 5	
Jan. 13-19	w	6.1 Systems of Two Linear Equations in Two Variables6.2 Larger Systems of Linear Equations6.3 Applications of Systems of Linear Equations	6.4 Basic Matrix Operations	Jan 18
2	М	Labor Day	Exam 1: Chapter 5, 6	_
Jan. 20 - 26	W	6.5 Matrix Products and Inverses Review for Exam 1	7.3 Applications of Linear Programming	Jan 26
3 Jan. 27 -	М	7.1 Graphing Linear Inequalities in Two Variables7.2 Linear Programming: The Graphical Method		Feb 2
Feb. 2	W	7.4 The Simplex Method: Maximization7.5 Maximization Applications	Quiz 2: Chapter 7	
4	М	8.1 Sets8.2 Applications of Venn Diagrams8.3 Introduction to Probability	8.4 Basic Concepts of Probability	
Feb. 3 - 9	W	8.5 Conditional Probability and Independent Events9.1 Probability Distributions and Expected Value	Review for Exam 2	Feb 9
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	W	9.4 Binomial Probability10.1 Frequency Distribution10.2 Measures of Center	Quiz 3, Chapter 9	Feb 16
6 Feb. 17 - 23	М	3.1 Functions	Review for Exam 3 Exam 3: Chapter 9, 10	
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7 Feb.24 -	М	3.5 Polynomial Functions3.6 Rational Functions	4.1 Exponential Functions Quiz 4: Chapter 3		
Mar. 2	W	4.2 Application of Exponential Functions4.3 Logarithmic Functions4.4 Logarithmic and Exponential Equations	Review for Exam 4	Mar 3	
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Math 1324.101H1 Mathematics for Business & Social Sciences Spring 2025 STEAM Building, Room 119 MW 8:00 - 10:50am

Instructor Information: Theophilus Boye, <u>tboye@com.edu</u>, 409-933-**8758** Include your course & section in the subject line when emailing

Student hours: MW: 11:00 - 2:00pm **TTh**: 4.30 - 5:30pm

Office location: STEAM 325-3

Required Textbook/Materials: Minimally, you are required to purchase the access code for MyLab Math to access the eText for the textbook and all course assignments. A hard copy of the textbook is recommended, but not required.

ISBN: 9780134767611 Title: Finite Mathematics with Applications in the Management, Natural, and Social Sciences Author: Lial, Hungerford, Holcomb, and Mullins Edition: 13 Copyright: 2019 Publisher: Pearson

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; matrices; linear programming; and probability, including expected value.

Course requirements:

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Math 1324.101H1 Mathematics for Business & Social Sciences Spring 2025 STEAM Building, Room 119 MW 8:00 - 10:50am

Instructor Information: Theophilus Boye, <u>tboye@com.edu</u>, 409-933-**8758** Include your course & section in the subject line when emailing

Student hours: MW: 11:00 - 2:00pm **TTh**: 4.30 - 5:30pm

Office location: STEAM 325-3

Required Textbook/Materials: Minimally, you are required to purchase the access code for MyLab Math to access the eText for the textbook and all course assignments. A hard copy of the textbook is recommended, but not required.

ISBN: 9780134767611 Title: Finite Mathematics with Applications in the Management, Natural, and Social Sciences Author: Lial, Hungerford, Holcomb, and Mullins Edition: 13 Copyright: 2019 Publisher: Pearson

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; matrices; linear programming; and probability, including expected value.

Course requirements:

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Office location: STEAM 325-3

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5.	Apply matrix skills and probability analyses to model applications to solve real- world problems.	Critical Thinking Skills (CT)	Quiz

Course Outline (Tentative):

		In-Class Instruction	Independent Study /Online	Due
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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 <u>https://www.com.edu/community-resource-center/</u>. 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 <u>deanofstudents@com.edu</u> or <u>communityresources@com.edu</u>.

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Math 1324.101H1 Mathematics for Business & Social Sciences Spring 2025 STEAM Building, Room 119 MW 8:00 - 10:50am

Instructor Information: Theophilus Boye, <u>tboye@com.edu</u>, 409-933-**8758** Include your course & section in the subject line when emailing

Student hours: MW: 11:00 - 2:00pm **TTh**: 4.30 - 5:30pm

Office location: STEAM 325-3

Required Textbook/Materials: Minimally, you are required to purchase the access code for MyLab Math to access the eText for the textbook and all course assignments. A hard copy of the textbook is recommended, but not required.

ISBN: 9780134767611 Title: Finite Mathematics with Applications in the Management, Natural, and Social Sciences Author: Lial, Hungerford, Holcomb, and Mullins Edition: 13 Copyright: 2019 Publisher: Pearson

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; matrices; linear programming; and probability, including expected value.

Course requirements:

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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 <u>https://www.com.edu/community-resource-center/</u>. 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 <u>deanofstudents@com.edu</u> or <u>communityresources@com.edu</u>.

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Math 1324.101H1 Mathematics for Business & Social Sciences Spring 2025 STEAM Building, Room 119 MW 8:00 - 10:50am

Instructor Information: Theophilus Boye, <u>tboye@com.edu</u>, 409-933-**8758** Include your course & section in the subject line when emailing

Student hours: MW: 11:00 - 2:00pm **TTh**: 4.30 - 5:30pm

Office location: STEAM 325-3

Required Textbook/Materials: Minimally, you are required to purchase the access code for MyLab Math to access the eText for the textbook and all course assignments. A hard copy of the textbook is recommended, but not required.

ISBN: 9780134767611 Title: Finite Mathematics with Applications in the Management, Natural, and Social Sciences Author: Lial, Hungerford, Holcomb, and Mullins Edition: 13 Copyright: 2019 Publisher: Pearson

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; matrices; linear programming; and probability, including expected value.

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Course Outline (Tentative):

Week/Date	In-Class Instruction		Independent Study /Online	Due	
1	M Orientation 5.3 Consu M 5.1 Simple Interest and Compound Interest Amortizat		5.3 Consumer loans & AmortizationQuiz 1: Chapter 5		
Jan. 13-19	w	6.1 Systems of Two Linear Equations in Two Variables6.2 Larger Systems of Linear Equations6.3 Applications of Systems of Linear Equations	6.4 Basic Matrix Operations	Jan 18	
2	М	Labor Day	Exam 1: Chapter 5, 6	Jan 26	
Jan. 20 - 26	w	6.5 Matrix Products and Inverses Review for Exam 1	7.3 Applications of Linear Programming		
3 Jan. 27 -	М	7.1 Graphing Linear Inequalities in Two Variables7.2 Linear Programming: The Graphical Method		Feb 2	
Feb. 2	w	7.4 The Simplex Method: Maximization7.5 Maximization Applications	Quiz 2: Chapter 7		
4	М	8.1 Sets8.2 Applications of Venn Diagrams8.3 Introduction to Probability	8.4 Basic Concepts of Probability		
Feb. 3 - 9	W	 8.5 Conditional Probability and Independent Events 9.1 Probability Distributions and Expected Value 	Review for Exam 2	Feb 9	
5 Feb. 10 - 16	М	Exam 2: Chapter 7, 8 9.2 The Multiplication Principle, Permutations and Combinations	9.3 Applications of Counting		
	w	9.4 Binomial Probability10.1 Frequency Distribution10.2 Measures of Center	Quiz 3, Chapter 9	Feb 16	
6 Feb. 17 - 23	М	3.1 Functions	Review for Exam 3 Exam 3: Chapter 9, 10		
	w	3.2 Graph of Functions	3.4 Quadratic Functions	Feb. 23	

Dates	In-Class Instruction		Independent Study/Online	Due
7 Feb.24 -	M	3.5 Polynomial Functions3.6 Rational Functions	4.1 Exponential FunctionsQuiz 4: Chapter 3	
Mar. 2	W	4.2 Application of Exponential Functions4.3 Logarithmic Functions4.4 Logarithmic and Exponential Equations	Review for Exam 4	Mar 3
8 Mar. 3 - 6	М	Exam 4 Chapter 3, 4 Review for Final Exam	Review for Final Exam	Mar. 4
	W	Final Exam (comprehensive)		

*W-Day is Feb 26 *Class ends on March 6 *Calendar is subject to change

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 <u>https://www.com.edu/student-services/docs/Student Handbook 2024-2025 v2.pdf</u>. *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, 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 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 26. The last date to withdraw from the 16-week session is April 21. The last date to withdraw for the 2nd 8-week session is April 30.

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, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <u>https://www.com.edu/community-resource-center/</u>. 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 <u>deanofstudents@com.edu</u> or <u>communityresources@com.edu</u>.

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.