

Math 1324.007 - Math for Business and Economics, Fall 2026

MoWeFr 2:30 - 3:25 pm in WTB 235 and TuTh 2:00 - 3:20 pm in WTB 236

7-Week Course: October 12 - December 4, 2026

Instructor: Dr. Maddie Dawsey
Office: RBN 4048
Office Hours: TuTh 8:30 - 10:00 am (or by appointment)
Email: mdawsey@uttyler.edu
Website: All course materials will be posted on Canvas

Textbook

College Mathematics for Business, Economics, Life Sciences, and Social Sciences, 14th edition (Prentice Hall), by Barnett, Ziegler, Stocker, and Byleen. ISBN: 9780134674148.

Note: You are not required to have a hard copy of the textbook, but you are required to purchase a MyLab Math access code. Once you purchase the access code, you will have access to the e-book and online homework. Here are the instructions for joining the online course to complete your homework assignments:

1. Go to <https://mlm.pearson.com/enrollment/dawsey81105>.
2. Sign in with your Pearson student account, or create your account if this is the first time you have signed in to Pearson.
3. Enter the prepaid access code that came with your textbook purchase from the bookstore, or buy instant access.
4. Select **Go to my course**.
5. Select **MATH 1324.007 Math for Business and Economics** from My Courses.
6. To sign in later, go to <https://mlm.pearson.com>, sign in with your Pearson account, and select **MATH 1324.007 Math for Business and Economics** from My Courses.

Course Description

Topics include review of basic algebraic concepts, linear equations and inequalities, mathematics of finance, matrices, and introduction to linear programming. Credit not given for both MATH 1324 and MATH 1314 or MATH 1332.

Course Prerequisites

Satisfactory score on SAT, ACT, or THEA.

Student Learning Outcomes

Upon completion of this course, students should be able to do the following:

- Demonstrate knowledge of basic functions (polynomial, exponential, and logarithmic)
- Visually, numerically, and symbolically determine solutions to systems of linear equations and inequalities as well as find the optimal value of a linear function subject to constraints
- Apply the above to develop and analyze models in business scenarios

Grading Scheme

Your final letter grade will be determined by the following grading scheme:

Homework	20%	A	90 - 100
Quizzes	20%	B	80 - 89
Exams	60%	C	70 - 79
		D	60 - 69
		F	0 - 59

Attendance

Make sure you attend class every day. Attendance and participation in class are very important for your success.

Homework (20%)

Homework will be assigned from MyLab Math after class each day, and each week's homework problems will be due by the end of the day the following Monday.

Quizzes (20%)

Two quizzes will be given each week in class, every Wednesday and every Friday throughout the course, unless otherwise specified by the professor. Make-up quizzes will not be available, unless a student notifies and provides documentation of a medical issue or official university-sanctioned event to the professor in advance of the missed quiz. Any missed quizzes that are from excused absences must be made up within two class days. Any missed quizzes that are not excused and made up within two class days will earn a grade of zero. Each student's two lowest quiz grades will be dropped at the end of the semester, to account for any unexcused missed quizzes or, in the case of no missed quizzes, lower than normal quiz grades.

Exams (60%)

There will be three exams. See the tentative exam schedule below.

Exam 1	Thursday, October 29
Exam 2	Tuesday, November 17
Exam 3	Friday, December 4

Make-up exams will not be available, unless a student notifies and provides documentation of a medical issue or official university-sanctioned event to the professor in advance of the missed exam. Any missed exams that are from excused absences must be made up within one week. Any missed exams that are not excused and made up within one week will earn a grade of zero. No exam grades will be dropped at the end of the semester.

Classroom Technology Policy

You will need a non-graphing calculator to use on assignments, quizzes, and exams in this class. If you bring a graphing calculator to a quiz or an exam, it will be confiscated, and you will not be able to use a calculator.

You will also need a device capable of internet access and access to Canvas.

No cell phones, laptops, headphones, or any other technology will be allowed in class, on quizzes, or on exams. Please keep distractions to a minimum during class to optimize the learning experience of yourself and your classmates. Also, please show up to class on time and stay in class until the end of the class period.

Student Resources

The Mathematics Learning Center, RBN 4021, is an open access computer lab for math students. There are tutors on duty to assist students who are enrolled in early-career courses. More information, including a current schedule, can be found here: <https://www.utt Tyler.edu/math/math-learning-center>.

The PASS Tutoring Center, located in LIB 401, also offers free tutoring for early-career courses and has walk-in hours. More information, including a current schedule and instructions for making tutoring appointments, can be found here: <https://www.utt Tyler.edu/tutoring>.

Other resources that are readily available to you include:

- Your class notes.
- Your professor (via office hours or email).
- Acceptable online resources, such as YouTube videos or free online tutorials.

AI Policy

I expect all work students submit for this course to be their own. Doing your own work, without human or artificial intelligence assistance, is best for your efforts in mastering course learning objectives. For this course, I expressly forbid using ChatGPT or any other artificial intelligence (AI) tools for any stages of the work process, including brainstorming. Deviations from these guidelines will be considered a violation of UT Tyler's Honor Code and academic honesty values.

University Policies

For university policies concerning Students' Rights and Responsibilities, Grade Replacement/Forgiveness, State-Mandated Drop Policy, Disability Services, Student Absence due to Religious Observance, Student Absence for University-Sponsored Events and Activities, Campus Carry, Social Security and FERPA Statement, please see the University Information module on the course Canvas page.

Course Material

Here are the topics that will be covered in this course:

- 1.1 Linear Equations and Inequalities
- 1.2 Graphs and Lines
- 1.3 Linear Regression
- 2.1 Functions
- 2.2 Elementary Functions: Graphs and Transformations
- 2.3 Quadratic Functions
- 2.4 Polynomial and Rational Functions
- 2.5 Exponential Functions
- 2.6 Logarithmic Functions
- 3.1 Simple Interest
- 3.2 Compound and Continuous Interest
- 3.3 Future Value of an Annuity: Sinking Funds
- 4.1 Systems of Linear Equations in Two Variables
- 4.2 Systems of Linear Equations and Augmented Matrices
- 4.3 Gauss-Jordan Elimination
- 4.4 Matrices: Basic Operations
- 4.5 Inverse of a Square Matrix
- 4.6 Solving Matrix Equations
- 5.1 & 5.2 Linear Inequalities and Systems of Linear Inequalities in Two Variables
- 5.3 Linear Programming in Two Dimensions: A Geometric Approach
- 6.1 Introduction to the Simplex Method

Tentative Schedule

WEEK	DAY	PLANNED ACTIVITIES
Week 1 10/12–10/16	Monday	1.1 Linear Equations and Inequalities
	Tuesday	1.2 Graphs and Lines
	Wednesday	1.3 Linear Regression and QUIZ 1
	Thursday	2.1 Functions
	Friday	2.2 Elementary Functions: Graphs and Transformations and QUIZ 2
Week 2 10/19–10/23	Monday	2.3 Quadratic Functions
	Tuesday	2.4 Polynomial and Rational Functions
	Wednesday	2.5 Exponential Functions and QUIZ 3
	Thursday	2.6 Logarithmic Functions
	Friday	Additional Review and Practice and QUIZ 4
Week 3 10/26–10/30	Monday	Additional Review and Practice
	Tuesday	Additional Review and Practice
	Wednesday	Additional Review and Practice and QUIZ 5
	Thursday	EXAM 1
	Friday	3.1 Simple Interest (<i>no quiz</i>)
Week 4 11/2–11/6	Monday	3.2 Compound and Continuous Interest
	Tuesday	3.3 Future Value of an Annuity: Sinking Funds
	Wednesday	4.1 Systems of Linear Equations in Two Variables and QUIZ 6
	Thursday	4.2 Systems of Linear Equations and Augmented Matrices
	Friday	4.3 Gauss-Jordan Elimination and QUIZ 7
Week 5 11/9–11/13	Monday	4.4 Matrices
	Tuesday	4.5 Inverse of a Square Matrix
	Wednesday	4.6 Solving Matrix Equations and QUIZ 8
	Thursday	Additional Review and Practice
	Friday	Additional Review and Practice and QUIZ 9
Week 6 11/16–11/20	Monday	Additional Review and Practice
	Tuesday	EXAM 2
	Wednesday	5.1–5.2 Linear Inequalities (<i>no quiz</i>)
	Thursday	5.3 Linear Programming in Two Dimensions: A Geometric Approach
	Friday	6.1 Introduction to the Simplex Method and QUIZ 10
11/23–11/27	Monday	Thanksgiving Break
	Tuesday	
	Wednesday	
	Thursday	
	Friday	
Week 7 11/30–12/4	Monday	Additional Review and Practice
	Tuesday	Additional Review and Practice
	Wednesday	Additional Review and Practice and QUIZ 11
	Thursday	Additional Review and Practice
	Friday	EXAM 3