

# Math for Business and Economics I

MATH 1324.004 – Spring 2026

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**Instructor:** Fara Meza

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**Class Time:** Tuesday & Thursday, 2:00 PM – 3:20 PM

**Classroom:** RBN 4025

## Office Hours:

- Monday & Wednesday: 11:10 AM – 12:10 PM
- Tuesday: 1:00 – 1:50 PM
- Other times by appointment

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## Course Description

Topics include a review of basic algebraic concepts, linear equations and inequalities, mathematics of finance, matrices, and an introduction to linear programming.

*Credit will not be given for both MATH 1324 and MATH 1314 or MATH 1332.*

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## Prerequisite

Satisfactory score on SAT, ACT, or THEA.

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## Student Learning Outcomes

By the end of this course, successful students will be able to:

- Demonstrate knowledge of basic functions (polynomial, exponential, and logarithmic).
- Visually, numerically, and symbolically solve systems of linear equations and inequalities.
- Find optimal values of linear functions subject to constraints.
- Apply mathematical models to business and economic scenarios.

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# Required Materials

**Textbook:** *College Mathematics for Business, Economics, Life Sciences, and Social Sciences*, 14th Edition Barnett, Ziegler, Stocker, and Byleen (Prentice Hall)  
ISBN-13: 978-0134674148

- Students must purchase a **MyLab Math access code**, which includes the e-book and online homework.
- Online homework is **required**.

**Calculator:** Scientific Calculator (Non-graphing calculator)

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## Grading

Category	Percentage
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Homework	15%
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Quizzes	15%
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Exams	45%
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Final Exam	25%
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## Grading Scale

- 90% and above: **A**
- 80% – 89%: **B**
- 70% – 79%: **C**
- 60% – 69%: **D**
- Below 60%: **F**

*An “I” (Incomplete) grade will be given only in rare cases involving documented emergencies.*

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## Attendance and Participation

Regular attendance is essential for success in this course. Students are expected to attend every class, arrive on time, and remain for the entire class period.

- Late work is **not accepted**.
- Make-up exams are **not given** except for official university or documented medical absences.

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## Quizzes

- One short quiz will be given weekly on Fridays.
- At the end of the semester, **one quiz grade will be dropped** (the lowest score or a missed quiz).

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## Homework

Homework will be completed online using **MyLab Math**. Assignments must be submitted by the posted deadlines.

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## Exams

There will be **three exams** plus a **comprehensive final exam**.

- **Exam 1:** Chapters 1–2
- **Exam 2:** Chapters 3–4
- **Exam 3:** Chapters 4, 5, and Sections 6.1–6.2

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## Final Exam Policy

The final exam is comprehensive.

No course letter grade may be **two or more letters higher** than the final exam grade.

*Example: A C on the final exam limits the course grade to a B.*

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## Important Dates

Date	Event
January 19	Holiday
March 9–13	Spring Break
March 30	Last day to withdraw from courses
April 28	Final Exam

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# Course Topics and Schedule

## Exam 1 Topics

- 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

## Exam 2 Topics

- 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

## Exam 3 Topics

- 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
- 5.3 Linear Programming in Two Dimensions
- 6.1 Introduction to the Simplex Method

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## Classroom Policies

Students are expected to be respectful at all times.

- Turn off or silence cell phones.
- Avoid unnecessary talking and distractions.
- Arrive on time and stay for the full class period.

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## **Artificial Intelligence Policy**

The use of **artificial intelligence tools (including ChatGPT)** is **not permitted** in this course.

All submitted work must be entirely the student's own. Using AI tools at any stage of the work process, including brainstorming, is a violation of UT Tyler's Honor Code and academic honesty policies.

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## **University Policies**

For official university policies regarding Students' Rights and Responsibilities, Grade Replacement/Forgiveness, Course Drop Policy, Disability Services, Religious Observances, University-Sponsored Activities, and FERPA, please see:

<http://www.uttyler.edu/academicaffairs/files/syllabuspolicy.pdf>