

Econ 3372: Mathematical Economics
Section 001, CRN 16955, Fall 2023
University of Texas at El Paso

Time and Location: TR 10:30 – 11:50 am, BUSN 313

Instructor: Feng Liu, Ph.D.

Email: fliu@utep.edu (Students should contact me using their UTEP emails
and put “Econ 3372 001 + full name” in the subject line.)

Office Hours: TR 12:30 – 2:30 pm or by appointment, BUSN 212

Blackboard course site: <https://blackboardlearn.utep.edu> (Students will find assignments and other class
matters on BB. Students should visit BB on a regular basis for updates.)

Course Description

This is a course in introductory mathematical methods for economics and other business majors. This means the class is an introduction to calculus and linear algebra for students of, mainly, economics and finance. It is expected that all students have had exposure to mathematics at the college level (at least, Math 1320, and preferably, Math 2301) and principles of economics. We will use the language of mathematics to describe situations which occur in economics. Mathematical modeling is an indispensable tool in economics, finance, business, and management. It is not always simple to use mathematics, but its language and techniques enable us to frame and solve problems that cannot be attacked effectively in other ways.

Course Assignments and Grades

<i>Assignment</i>	<i>Points</i>	<i>Date</i>
Exam 1 Exam 2 Final Exam	200 (100 each, pick two highest)	TBD, Take-home
Homework	$180 = 30 \times 6$	Bi-weekly
Bonus Presentation	20 (bonus)	In-class
Total	380	

1. Exams

There will be three exams including a final exam. I will take the highest two exam scores and drop the lowest score. Therefore, students who are satisfied with their scores on the first two exams may choose to skip the final exam. The exams are 100 points each, for a total of 200 points.

Since the exams are take-home, they are open book, and you may use whatever sources or materials you find helpful. The only requirement is to complete the exams **independently**. Students who are found to have copied any portions of exams will receive **zeros**. Also, don't put the exam questions into ChatGPT.

2. Homework

There will be six homework assignments. These are 30 points each, for a total of 180 possible points from homework.

3. Presentations

For bonus or extra credit points, students may choose a question to explore and then give an approximately 5-10 minutes presentation to the class. The topic should be something interesting or relevant to our course. For each class, one person may present. If you choose to do a presentation, please email me to set your presentation day.

4. Makeup

No makeup will be available for any exam or homework as they are take-home.

Grading Scale

<i>Letter Grade</i>	<i>Percentages</i>	<i>Points</i>
A	[90, 100]	[342, 380]
B	[80, 90)	[304, 342)
C	[70, 80)	[266, 304)
D	[60, 70)	[228, 266)
F	below 60	below 228

1. There are no exceptions to the grading policy. I sympathize with students who are close to the cutoff for the next higher grade. However, it is unfair to others to give special consideration to any student.
2. **Grades will be posted on Blackboard**, so students can monitor their status throughout the semester. Any end-of-semester adjustments on final grades will be administered at the instructor's discretion and are extremely unlikely.

Online Classes

Due to my pregnancy, and as approved by the department, we will switch to online classes once I deliver. My due date is currently November 2, so we can expect the last few classes to be online.

Textbook and Software

1. Essential Mathematics for Economic Analysis, 6th ed. By Knut Sydsaeter, Peter Hammond, Arne Strom, and Andrés Carvajal, 2021. ISBN: 978-1-292-35928-1.
2. We might use Excel, Mathematica.

Classroom Decorum

The learning process is more productive when there is a positive classroom environment. Part of the responsibility for maintaining that environment rests with students. What I ask is less for my benefit than for the benefit of your fellow students. Students should follow the simple guidelines below:

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1. Treat class time as if it were a professional meeting. Disruptive student behavior, such as having personal conversations during lectures, is unacceptable.
 2. Attendance is required. Students are responsible to catch up on any missed work.
 3. Electronic devices are permitted only if students are using them to take notes or view the textbook. Please silence cell phones and other electronic devices before class starts.
 4. Academic dishonesty is a serious offense. Cheating, plagiarism, collusion, or falsification will result in a **zero mark**. Academic dishonesty is defined by the University at <https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>.

Note: Failure to adhere to course rules and expectations may result in a student being administratively dropped from the course or being downgraded to the next grade letter. For example, from B down to C.

Communication

The best way to reach me is via email. I strongly prefer to communicate **through emails rather than Blackboard course messages**. Please send emails to fliu@utep.edu and put “Econ 3372 001 + full name” in the subject line all the time. I will make every attempt to respond to your message within 24 to 48 hours of receipt. For email etiquette, see <https://www.unr.edu/writing-speaking-center/student-resources/writing-speaking-resources/email-etiquette-for-students>.

Academic Integrity and Scholastic Dishonesty

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures (HOOP). It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, processing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one’s own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso will be reported to the [Office of Student Conduct and Conflict Resolution](#) (OSCCR) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#). All students are responsible for knowing and adhering to UTEP’s policy on academic honesty.

Accommodations Policy

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act

Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services](#) (CASS). Contact CASS at 915-747-5148 or email them at cass@utep.edu, or apply for accommodation online via the [CASS portal](#).

Withdrawal and Incomplete Grade Policy

A student may officially withdraw from this class in accordance with UTEP policy and within the UTEP academic calendar dates. Automatic withdrawals will NOT be made by the instructor. To be withdrawn from the class, students must take the appropriate actions on or before the university deadlines.

Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines. The student must have a reasonable chance of passing the course to be considered for an incomplete. An incomplete will not be granted to avoid failing the course.

Course Evaluation

Your constructive assessment of this course plays an indispensable role in shaping education at UTEP. Upon completing the course, please take the time to fill out the online course evaluation.

Copyright Statement

All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

COVID-19 Precautions

If you have tested positive for COVID-19, you are encouraged to report your result to covidaction@utep.edu, so that the Dean of Student Office can provide you with support and help with communication with your professors. It is important to follow all instructions that you receive as part of the diagnosis, including isolation and staying at home until a negative test is produced.

If you experience COVID-19 symptoms, please follow the isolation protocol by staying at home and getting tested as soon as possible. If the test is negative but you are still seeking accommodations, please contact the Dean of Students Office for guidance in a timely manner. Your instructor will work with Dean of Students Office to determine the extent of any such accommodations.

Final Note

The contents of the syllabus are tentative and subject to change. Any changes will be made known to the students beforehand and posted to Blackboard course site.