

ENGINEERING ECONOMICS: ENGR 2308

INSTRUCTOR CONTACT INFORMATION

Instructor: **Amit Biswas**

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**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

3:3:0 Semester Credit Hours (3 Hours lecture)

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

Principles of Economics covers the scope and sequence of most introductory economics courses. It takes a balanced approach to the theory and application of economics concepts. The text uses conversational language and ample illustrations to explore economic theories, and provides a wide array of examples using both fictional and real-world scenarios. This course carefully and thoroughly updated to reflect current data and understanding, as well as to provide a deeper background in diverse contributors and their impacts on economic thought and analysis. The course highlights the research and views of a broader group of economists. Brief references and deeply explored socio-political examples have been updated to showcase the critical – and sometimes unnoticed – ties between economic developments and topics relevant to students.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

- Describe the engineering Economic Decision
- Develop an awareness and understanding of Time value of Money and
- Money Management, Market Interest Rates
- Equivalence Calculations under inflations
- Describe present worth Analysis
- Differentiate Rate of Return Analysis and Multiple Rate of Returns.
- Identify the Benefit of Cost Analysis
- Calculate Depreciation and Income Tax.
- Mathematical Problem

REQUIRED TEXTBOOK AND MATERIALS

1. Scientific calculator
2. Laptop
3. **Textbook:** Principal of Economics OpenStax
ISBN-978-1-71147-146-4 (B&W) 978-1-71147-145-7 (Color)
<https://openstax.org/details/books/principles-economics-3e>

ATTENDANCE POLICY

The campus policy mandates that students attend 80% of their scheduled instructional days. Class attendance is critical for understanding the topics. This will be tracked in Starfish via student access in Blackboard and participation during specified meeting times. Excessive unexplained absences will result in a ten-point penalty from the final semester grade (at the discretion of the instructor).

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the Academic Calendar. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Classwork	20%
Assignments	20%
Quiz:	20%
Exam:	40%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

LIT does not use +/- grading scales.

STUDENT EXPECTED REQUIREMENT

For every hour in class (or unit of credit) students should expect to spend at least two to three hours per week studying and completing assignments. For 3 credit hour class students should prepare to allocate approximately six to nine hours per week outside of class in a 16 week session or approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at <http://catalog.lit.edu/index.php>

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504, and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology](#)

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at www.lit.edu. Please note that the online version of the LIT Catalog and Student Handbook supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

COURSE ASSESSMENT

Quiz: A quiz will be given every other week. The duration of the quizzes will be 15 to 20 minutes. We will continue the class sessions after the quizzes. It is to make sure that the

students are studying the class materials on a regular basis.

Optional Homework: Students will regularly receive optional homework assignments. These assignments will not be graded. The purpose of the homework is to support the students' learning process.

Extra Credits: Extra credit opportunities will be announced during class lectures. The extra credits will be reflected on students overall grade points at the end of the semester.

Exams: Instructions and dates will be announced at least one week in advance. The calendar in the syllabus shows tentative dates.

ADDITIONAL COURSE POLICIES/INFORMATION

1. Any assignment that Blackboard considers late will be manually graded with a deduction of 20 points.
2. The Final Exam cannot be late for ANY reason. The semester ends when the Final Exam is due.
3. Changes will be made to the calendar's topics and assignments because of any unanticipated circumstances.

SYLLABUS SCHEDULE

The schedule below is the tentative semester schedule which is subject to revision.

Week	Topic	Reference
Week 1	Chapter 1 Introduction	Chapter 1 Problems and Questions
Week 2	Chapter 2: Choice in a World of Scarcity	Chapter 2 Problems and Questions
Week 3	Chapter 3: Demand and Supply Chapter 4: Labor and Financial Markets	Chapter 3, 4 Problems and Questions
Week 4	Chapter 5: Elasticity	Chapter 5 Problems and Questions
Week 5	Chapter 6: Consumer Choices	Chapter 6, Problems and Questions
Week 6	Chapter 7: Production, Costs, and Industry	Chapter 7: Problems and Questions
Week 7	Chapter 8: Perfect Competition	Chapter 8: Problems and Questions
Week 8	Chapter 9: Monopoly Chapter 10: Monopolistic Competition	Chapter 9, 10 Problems and Questions
Week 9	Chapter 14: Labor Markets and Income	Chapter 14 Problems and Questions
Week 10	Chapter 15: Poverty and Economic Inequality	Chapter 15 Problems and Questions

Week	Topic	Reference
		Questions
Wek 11	Chapter 16: Risk and Insurance Chapter 17: Financial Markets	Chapter 16, 17 Problems and Questions
Week 12	Chapter 18: Public Economy Chapter 20: Economic Growth	Chapter 18, 20 Problems and Questions
Week 13	Chapter 21: Unemployment Chapter 22: Inflation	Chapter 21,22 Problems and Questions
Week 14	Chapter 27: Money and Banking	Chapter 27 Problems and Questions
Week 15	Chapter 33: International Trade	Chapter 33 Problems and Questions
Week 16	Exam	

Notes:

- This schedule is tentative and subject to change