

Syllabus Spring 2024 TR
Economy for Engineers & Scientists - CE 2326 - 005
 CRN 24860; Jan 16, 2024 – May 2, 2024; In Class, Online Synchronous

Instructor: L.G. Perez, Ph.D.
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 Office Hours: TR 30 minutes after class or by appointment
 Class Hours: 7:30 am – 8:50 am TR
 Classroom: COBA 323

Course Description

This course covers the basics of economic analysis from an engineering perspective. Because cost is such an important component in decision-making, various techniques for comparing alternatives on an economic basis are presented. Other topics include depreciation, inflation considerations, cost estimating, sensitivity analysis, and financial life events. After completing the course, the student should be able to identify which alternative should be selected from two or more mutually exclusive alternatives on the basis of economic considerations.

Objective

Understand basic economic concepts (e.g., time value of money, present worth, rate of return, cost estimation, inflation, etc.) and their application in engineering.

Identify which alternative should be selected on the basis of economic considerations.

Textbook Information

Required Text: Basics of Engineering Economy, 3rd ed, 2021
 Authors: Leland Blank and Anthony Tarquin

Organization and Method of Instruction

The course will be taught using two venues (in the classroom, on-line Sync). Refer to the syllabus as a guide of how lectures will be delivered (at UTEP or BB Zoom) Use of Blackboard, archived presentations and web-based instruction may be used.

Grade Determination

≥ 90 -----	A
80 - < 90 -----	B
70 - < 80 -----	C
60 - < 70 -----	D
<60 -----	F

	Exams	Quizzes & Assignments	Journal Checks	Homework Checks	Participation	Final	Total
Number	4	3	1-2	1-2	1	1	
Points	11 or varies	2	6 each or one 12	8 or varies	1-4	26	
Total	44	6	12	08	04	26	100

Class Policy

Attendance is mandatory. You will be on your honor as future engineers. All exams, quizzes and the final are closed book. Note cards or other resources are NOT allowed. You will need to bring a 10% interest table with you to all exams, quizzes and the final. All communication devices including calculators with a communications capability are disallowed during exams.

All devices with a communications capability will need to be stowed away during exams.

Students are required to take exams in the classroom and will not be allowed to leave the room once the exam has started. A failing grade will be assigned to the student's exam for any student that takes the exam other than in the classroom or leaves the room during an exam. Please attend to bathroom requirements before start of an exam. Once you begin the exam, quiz or survey, you must complete it.

Prior to leaving from an exam, students must show their grade to the instructor. Students leaving the examination room without prior approval will receive a failing grade on the exam. A Final Exam grade of less than 30 will result in a final course grade of no higher than a 69.

Grading appeals must be submitted to the instructor, in writing via email, no more than two weeks after the grade is returned or made available to the student. **Do not miss exams. Make-up exams will not be given.** Excuses such as weddings (other than your own) or quinceneras will **NOT** be valid excuses to miss a test or the final exam. In the event of a pre-mediated absence from an exam for such reasons as university sponsored activity, severe family emergencies or hospitalization, the instructor must be notified as early as possible **before** the date of the exam via email with documentation.

Academic Integrity

Academic regulations and procedures are governed by university policy. Students must abide by university rules on Academic Integrity and Scholastic Dishonesty. All students must do their own work on quizzes and exams. Any student **warned and/or suspected** of cheating will not be eligible for extra credit and participation points will be deducted. Students found cheating will face severe consequences. If any one student is found cheating, all extra credit is void for the entire class.

Special Accommodations

The University of Texas at El Paso provides, upon request, appropriate academic accommodation for students with disabilities. Please coordinate with the Center for Accommodations and Support Services instructor and the instructor early to ensure accommodations are provided in a timely manner. For more information, contact the Center for Accommodations and Support Services (<http://sa.utep.edu/cass/>).

COVID-19 & Illness Statement

Please stay home if you have been diagnosed with COVID, are experiencing COVID symptoms or are not well. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID, you are encouraged to receive information at covidaction@utep.edu, or <https://www.utep.edu/chs/covid-testing/>

Class	Date	When	TR	Subject	Sections
1	Tues	1/16/2024		Classes Begin. Intro Chap 1	
2	Thurs	1/18/2024			
3	Tues	1/23/2024		Chap 2	
4	Thurs	1/25/2024			
5	Tues	1/30/2024		1/31/2024 Census Date	
6	Thurs	2/1/2024		Chap 3	
7	Tues	2/6/2024		Exam 1 Chap 1 and 2	
8	Thurs	2/8/2024			
9	Tues	2/13/2024		Chap 4	
10	Thurs	2/15/2024			
11	Tues	2/20/2024			
12	Thurs	2/22/2024		Chap 5	
13	Tues	2/27/2024			
14	Thurs	2/29/2024		Chap 6	
15	Tues	3/5/2024		Exam 2 Chap 3, 4, 5	
16	Thurs	3/7/2024			
17	Tues	3/12/2024		Spring Break 3/11 - 3/15	
18	Thurs	3/14/2024		Spring Break 3/11 - 3/15	
19	Tues	3/19/2024		Chap 7	
20	Thurs	3/21/2024			
21	Tues	3/26/2024		Chap 8	
22	Thurs	3/28/2024		Drop/withdrawl deadline	
23	Tues	4/2/2024		Chap 9	
24	Thurs	4/4/2024		Exam 3 Chap 6,7, 8	
25	Tues	4/9/2024		Chap 10	
26	Thurs	4/11/2024			
27	Tues	4/16/2024			
28	Thurs	4/18/2024		Chap 11, 12	
29	Tues	4/23/2024		Exam 4 Chap 9, 10, 11, 12	
30	Thurs	4/25/2024			
31	Thurs	4/30/2024			
32	Tues	5/2/2024			
33	Thurs	5/7/2024		Final Exams May 9, 1:00 pm	