

Syllabus Spring 2024 - MWF
Economy for Engineers & Scientists - CE 2326 - 004
 CRN 22048; Jan 16, 2024 – May 02, 2024; In Class, Online Synchronous

Instructor: L.G. Perez, Ph.D.
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 Office Hours: MWF 30 minutes after class or by appointment
 Class Hours: 1:30 am – 2:20 pm MWF
 Classroom: Quinn 212

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

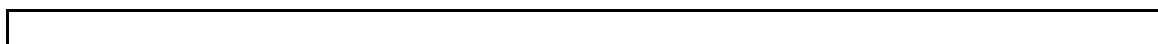
Academic regulations and procedures are governed by university policy. Students must abide by university rules on Academic Integrity and Scholastic Dishonesty. All students must do their own work on quizzes and exams. Any student **warned and/or suspected** of cheating will not be eligible for extra 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	M W F Subject	Sections
1	Mon	1/15/2024	Dr. Martin Luther King - Holiday	
2	Wed	1/17/2024	Classes Begin. Intro Chap 1	
3	Fri	1/19/2024		
4	Mon	1/22/2024		
5	Wed	1/24/2024	Chap 2	
6	Fri	1/26/2024		
7	Mon	1/29/2024		
8	Wed	1/31/2024	Exam 1 Chap 1 and 2 - 1/31/2024 Census Date	
9	Fri	2/2/2024	Chap 3	
10	Mon	2/5/2024		
11	Wed	2/7/2024		
12	Fri	2/9/2024	Chap 4	
13	Mon	2/12/2024		
14	Wed	2/14/2024		
15	Fri	2/16/2024	Chap 5	
16	Mon	2/19/2024		
17	Wed	2/21/2024	Exam 2 Chap 3, 4, 5	
18	Fri	2/23/2024	Chap 6	
19	Mon	2/26/2024		
20	Wed	2/28/2024		
21	Fri	3/1/2024	Chap 7	
22	Mon	3/4/2024	Drop/withdrawal deadline	
23	Wed	3/6/2024	Chap 8	
24	Fri	3/8/2024		
25	Mon	3/11/2024	Spring Break 3/11 - 3/15	
26	Wed	3/13/2024	Spring Break 3/11 - 3/15	
27	Fri	3/15/2024	Spring Break 3/11 - 3/15	
28	Mon	3/18/2024	Exam 3 Chap 6, 7, 8	
29	Wed	3/20/2024	Chap 9	
30	Fri	3/22/2024		
31	Mon	3/25/2024		
32	Wed	3/27/2024	Chap 10	
33	Fri	3/29/2024	Cesar Chavez Holiday - No classes; Spring Study Day	
34	Mon	4/1/2024		
35	Wed	4/3/2024		
36	Fri	4/5/2024	Chap 11,	
37	Mon	4/8/2024		
38	Wed	4/10/2024		
39	Fri	4/12/2024		
40	Mon	4/15/2024		
41	Wed	4/17/2024		
42	Fri	4/19/2024	Chap 12 Summary Review	

43	Mon	4/22/2024	
44	Wed	4/24/2024	Exam 4 Chap 9, 10, 11, 12
45	Fri	4/26/2024	
46	Mon	4/29/2024	
47	Wed	5/1/2024	
48	Fri	5/3/2024	Spring – Last day of classes
49	Mon	5/6/2024	May 8, 4:00 pm Final Exam
50	Wed	5/15/2023	Grades Due
51	Fri	5/16/2023	Grades are posted to Student Records