

**Syllabus Spring 2021 Online Course**  
**Economy for Engineers & Scientists - CE 2326 - 001**  
CRN 22160; Jan 19, 2021 - May 06, 2021; Online Sync/ Asynchronous

Instructor: L.G. Perez, Ph.D.  
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Office Hours: TR 30 minutes after class or by appointment  
Class Hours: TR 1:30 pm – 2:50 pm

**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, and sensitivity analysis. 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, 3<sup>rd</sup> ed, 2021  
Authors: Leland Blank and Anthony Tarquin

**Organization and Method of Instruction**

The course will be taught on-line Sync/ Asynchronous. Use of Blackboard, archived PowerPoint presentations and web-based instruction may be used.

Web-based Instruction Site:

<http://engineering.utep.edu/enge/ie3326.htm>

USERNAME: ILUVIT

Password: 2EZAME

**Grade Determination**

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

	Exams	Survey	Homework Quizzes	Final	
Number	4	1	2	1	
Points	16	4	6	20	
Total	64	4	12	20	100

Extra credit TBD.

### Class Policy

You will be on your honor as future engineers. All exams and the final are closed book. Homework quizzes are open to your notes. Note cards or other resources are NOT allowed. Tables and formula sheets will be provided if needed. Calculators with a communications capability are not allowed during exams. All devices with a communications capability will need to be stowed away during exams.

Students 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 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.

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 may be deducted. Students found cheating will face severe consequences.

### 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/>).

### Class Schedule

Week of	Chapter & Pages	Assignment	Notes Dec 19, 2021
Tuesday, January 19, 2021	Chapter 1 35 pp	Introduction, Read Chapter, Refer to BB for homework	
Thursday, January 21, 2021			
Tuesday, January 26, 2021	Chapter 2 24 pp	Read Chapter, Refer to BB for homework	
Thursday, January 28, 2021			
Tuesday, February 2, 2021	Chapter 3 22 pp	<b>Quiz: Syllabus, Lock Dn Brw, Res Mon</b> , Read Chapter. Refer to BB for homework. <b>Class at 1:45 after Quiz</b>	
Thursday, February 4, 2021			
Tuesday, February 9, 2021		<b>Exam 1: Chap 1-3</b>	

Thursday, February 11, 2021	Chapter 4 19 pp	Read Chapter, Refer to BB for homework	
Tuesday, February 16, 2021			
Thursday, February 18, 2021	Chapter 5 11 pp	Read Chapter, Refer to BB for homework	
Tuesday, February 23, 2021			
Thursday, February 25, 2021	Chapter 6 30 pp	Read Chapter, Refer to BB for homework	
Tuesday, March 2, 2021		<b>Exam 2: Chap 4 - 6</b>	
Thursday, March 4, 2021	Chapter 7 19 pp	Read Chapter, Refer to BB for homework.	
Tuesday, March 9, 2021		<b>Quiz: Homework 1 - 6, Class at 1:45 after Quiz</b>	
Thursday, March 11, 2021	Chapter 8 41 pp	Read Chapter, Refer to BB for homework	
Tuesday, March 16, 2021		Spring Break Mar 15 - 19th	Spring Break
Thursday, March 18, 2021		Spring Break Mar 15 - 19th	Spring Break
Tuesday, March 23, 2021	Chapter 9 17 pp	Read Chapter, Refer to BB for homework	
Thursday, March 25, 2021			Mar 26- Holiday Cesar Chavez
Tuesday, March 30, 2021	Chapter 10 19 pp	Read Chapter, Refer to BB for homework	
Thursday, April 1, 2021			Apr 2- Study Day
Tuesday, April 6, 2021		<b>Exam 3: Chap 7 - 10</b>	
Thursday, April 8, 2021	Chapter 11 24 pp	Read Chapter, Refer to BB for homework	
Tuesday, April 13, 2021			
Thursday, April 15, 2021	Chapter 12 20 pp	Read Chapter, Refer to BB for homework	
Tuesday, April 20, 2021			
Thursday, April 22, 2021	Chapter 13 31 pp	Read Chapter, Refer to BB for homework	
Tuesday, April 27, 2021		<b>Quiz: Homework 7 - 12 Class at 1:45 after Quiz</b>	
Thursday, April 29, 2021	Chapter 14 7 pp	Read Chapter, Refer to BB for homework	
Tuesday, May 4, 2021		<b>Exam 4: Chap 11 - 14</b>	
Thursday, May 6, 2021		Last Day of Classes	
<b>Thursday, May 13, 2021</b>		<b>Final Exam - Thursday, May 13. 1:00 pm - 3:45 pm</b>	