

Syllabus Spring 2020

Economy for Engineers & Scientists - CE 2326

CRN 23616 – Jan 21, 2020 to May 7, 2020; 11:30 am – 12:20 pm – Quin Hall 212

01/13/2020

Instructor: L.G. Perez, Ph.D.
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Office Hours: Before class or after class and/or by appointment

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, 2nd ed, 2014
Authors: Leland Blank and Anthony Tarquin

Organization and Method of Instruction

The course will be taught through lecture. Use of Blackboard, archived PowerPoint presentations and web-based instruction may be available.

Web-based Instruction Site:

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

USERNAME: ILUVIT

Password: 2EZ4ME

Grade Determination

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

Four tests, 15 points each, Final Exam, 18 points, Participation and Attendance 7 points, Homework and Resource Notebook 15 points. Bonus points available TBD.

The Resource Notebook must be a bound notebook (not 3-ring binder or spiral). It will be developed and graded progressively throughout the semester to create a thorough personal summary of the book used in class. The notebook **must include** a Cover page, Table of Contents, page numbering, a summary of the Engineer’s Code of Conduct, Chapter summaries

and Tabs. **Good penmanship should be used** and it should represent good engineering work that will serve as a reference in the future. Photocopying is not permitted.

Class Policy

All exams, quizzes and the final are closed book. Note cards 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 from your desk during exams.

Students will not be allowed to leave the classroom once the exam has started. A failing grade will be assigned to the student's exam for any student that leaves the classroom during an exam. Please attend to bathroom requirements before start of an exam.

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/>).

Spring 2020 Lecture Schedule				
	Date	v	Sections	Notes, Homework
Mon	20-Jan-20			Martin Luther King Jr Holiday
Wed	22-Jan-20		Chap 1 Intro.	9 Sections
Fri	24-Jan-20		1,2	Spring Census Day
Mon	27-Jan-20		2, 3,4	
Wed	29-Jan-20		5,6	
Fri	31-Jan-20		7,8, 9	
Mon	3-Feb-20		Chap 2 1,2	5 Sections, CRN (CHECK RESOURCE NOTEBOOK)
Wed	5-Feb-20		3,4	
Fri	7-Feb-20		5	
Mon	10-Feb-20		Chap 3 1,2	7 Sections
Wed	12-Feb-20		3,4	
Fri	14-Feb-20		5,6, 7	
Mon	17-Feb-20		Review	CRN
Wed	19-Feb-20			Test 1 Chap 1, 2, 3
Fri	21-Feb-20		Chap 4 1,2	6 Sections
Mon	24-Feb-20		3,4	
Wed	26-Feb-20		5,6	
Fri	28-Feb-20		Chap 5 1,2	4 Sections
Mon	2-Mar-20		3,4	
Wed	4-Mar-20		Chap 6 1,2	9 Sections
Fri	6-Mar-20		3,4	
Mon	9-Mar-20		5,6	
Wed	11-Mar-20		7, 8, 9	
Fri	13-Mar-20			Test II Chap 4, 5, 6
Mon	16-Mar-20			Spring Break
Wed	18-Mar-20			Spring Break
Fri	20-Mar-20			Spring Break
Mon	23-Mar-20			CRN
Wed	25-Mar-20		Chap 7 1,2	4 Sectionstions
Fri	27-Mar-20			Cesar Chavez Holiday
Mon	30-Mar-20		3,4	Skip Chap 9
Wed	1-Apr-20		Chap 8 1,2	6 Sections
Fri	3-Apr-20		3,4	
Mon	6-Apr-20		5,6	
Wed	8-Apr-20		Chap 10 1,2	5 Sections
Fri	10-Apr-20			Spring Study Day No Classes
Mon	13-Apr-20		3,4	
Wed	15-Apr-20		5	
Fri	17-Apr-20		Chap 11 1,2	6 Sections
Mon	20-Apr-20		3,4	
Wed	22-Apr-20			Test III Chap 7, 8, 10
Fri	24-Apr-20		5,6	
Mon	27-Apr-20		Chap 12 1,2, 3	7 Sections
Wed	29-Apr-20		4, 5	
Fri	1-May-20		6, 7	
Mon	4-May-20		Review	CRN
Wed	6-May-20			Test IV Chap 11, 12.
Fri	8-May-20			Dead Day
Mon	11-May-20		FINAL EXAM	Wednesday May 13. 1:00 pm - 3:45 pm

Grades are due May 20, 2020