

Syllabus
CE 2326 – Engineering Economy
Fall 2022

Professor Raed Aldouri
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Civil Engineering A219
Class Time: TR 7:30 – 8:50 AM
Office hours: TR 9:00 – 10 AM

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. Other topics include depreciation, inflation considerations, cost estimating, and sensitivity analysis. After completing the course, the student should be able to conduct an accurate economic analysis of various engineering alternatives.

Textbook Information

Required Text: Basics of Engineering Economy, 3rd ED with Connect
Authors: L.T. Blank and A.J. Tarquin
Connect Code must be purchased with the book.

If you have problems registering, call M-H tech support at 1-800-331-5094

Class and Test Schedule

The exams will typically cover more than one chapter as shown in the class schedule. No make up for missed exams. If you miss three assignments, you will be *dropped* for non-participation. Tentatively, an exam will be given after three chapters covered. You can repeat the homework many times to get full grades but must be submitted on time.

Method of Evaluation

Three Exam	60%
Homework and quizzes	30%
Final Exam	10%

Table 1 – Grade Determination

<u>Final Average, %</u>	<u>Course Grade</u>
≥ 90 -----	A
80-89 -----	B
70-79 -----	C
60-69 -----	D
<60 -----	F

Tentative Materials for - CE 2326

Chapters

1. **Foundations of Engineering Economy 1**
2. **Factors: How Time and Interest Affect Money 43**
3. **Nominal and Effective Interest Rates 79**
4. **Present Worth Analysis 108**
5. **Annual Worth Analysis 137**
6. **Rate of Return Analysis 154**
7. **Benefit/Cost Analysis and Public Sector Projects 196**
8. **Breakeven, Payback, Sensitivity, and Risk Analysis 222**
9. **Replacement and Retention Decisions 276**
10. **Effects of Inflation 302**
11. **Cost Estimation and Allocation 327**
12. **Depreciation Methods 358**

Center for Accommodations and Support Services (CASS)

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.