

BE 2326 – Economics for Engineers & Scientists - Syllabus

18398 - Fall '16

Course Description

This course is about the financial aspects of decisions within engineering projects. There is a focus on projects since often engineering activity is aimed at attaining specified ends using available or purchased resources within a limited amount of time. Often being an effective engineer means proposing solutions for a problem and selecting the best among various alternatives. 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, a student should be able to identify the alternative that should be selected from two or more mutually exclusive alternatives on the basis of economic considerations.

Textbook Information

Basics of Engineering Economy Edition; 2nd Edition. Author: Blank, Publisher: McGraw-Hill, 2014
ISBN: 9780073376356

Instructor Information

Instructor:	Nathaniel V. Robinson
Office:	Vowel Hall 311** ** if you have any difficulties with stairs or have accessibility needs then email me as my office requires some walking and stairs. I will make accommodations.
Office Hours:	Tues. 11AM - 12PM and Frid. 10-11 AM or by appointment
Email:	nvrobinson@utep.edu
Phone:	915-747-5745

Organization and Method of Instruction

The delivery will be a lecture and activity style approach with online resources also available. The website was created by the author of the book and consists of (1) condensed explanatory written materials with solved problems (2) PowerPoint presentations, (3) multiple choice practice tests (with answers) (4) old exam questions and answers from the book's author, and (5) student generated multiple-choice questions and answers.

Grades and communication will be conducted using Blackboard.

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You may use this Website to practice problems, review tutorials, etc. if desired and to improve your learning experience:

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

USERNAME: ILUVIT

Password: 2EZ4ME

McGraw-Hill web Site Address :

http://highered.mcgraw-hill.com/sites/0073376302/student_view0/index.html

Class and Test Schedule

There will be 4 exams and a final exam that count toward the overall grade. Class schedule with tentative dates for exams will be posted on Blackboard.

- Class meets from 1:30 pm – 2:50 pm every M, W in LART 222

Performance Evaluation

The course grade will be derived from the student's final overall average of the four exams and final in accordance with the ranges shown in Table 1 below:

Table 1 – Grade Determination

Overall Average	Letter Grade
≥ 90	A
89 - 80	B
79 - 70	C
69 - 60	D
< 60	F

Policy on Academic Integrity

In all matters of intellectual pursuit, UTEP faculty and students must strive to achieve excellence based on the quality of work produced by the individual. In the classroom and in all other academic activities, students are expected to uphold the highest standards of academic integrity. Any form of scholastic dishonesty is an affront to the pursuit of knowledge and jeopardizes the quality of the degree awarded to all graduates of UTEP. It is imperative that the members of this academic community understand the regulations pertaining to academic integrity and that all faculty insist on adherence to those standards.

Students are expected to be above reproach in all scholastic activities. Students who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure of the course and dismissal from the university. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or part to another person, taking an examination for another person, any act designed to give unfair advantage to any student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed in the Handbook of Operating Procedures, and are available in the Office of the Dean of Students, and the homepage of the Dean of Students at www.utep.edu may result in sanctions ranging from probation, to a failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others.

Statement on Disability

If you feel you have a disability that requires accommodation, contact the Disabled Student Services Office at 747-5148, go to the Union East Building, Room 106, or email dss@utep.edu.

Student Conduct

Students should participate in class discussions and activities, as well as ask questions if they arise. Students are expected to arrive to class on time, remain in class until the class is dismissed, and to refrain from private conversations and outside reading materials during class. Failure to appear and take an exam is the liability of the student and make up exams will only be given due to medical leave, emergency or approved absence prior to the exam. Please turn off cell phones and pagers during class.