

EK409 ENGINEERING ECONOMY  
FALL 2009  
COURSE SYLLABUS

Prof. T. A. de Winter  
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Office hours: Monday 7:00AM-11:15AM, 1:15-3:30PM  
Tuesday 7:00AM-12:00NOON  
Wednesday By appointment only  
Thursday 7:00AM-12:00NOON  
Friday 7:00AM-11:15AM

Text: Engineering Economy, Thuesen & Fabrycky,  
9th edition, Prentice Hall.  
Classroom: 8 St. Mary's Street, Room PHO 203  
Time: Tuesday, Thursday 12:00-2:00PM  
Grader: TBA  
Season ticket location: Agganis Arena  
Section 112, Row Q, Seat 2

GRADING

ATTENDANCE: Attendance will be taken and will count 10% of the semester grade. If you have two absences or less, you will get full credit for attendance.

EXAMS: There will be an in class exam, a take home exam and a final exam. All exams (including the take home) will be open book.

HOMEWORK: There will be homework assignments which are due on the assigned dates. The lowest homework grade will be dropped, the remaining homework assignments will count 20% of the semester grade.

GRADING SUMMARY:	EXAM AVERAGE	60%
	HOMEWORK	20%
	ATTENDANCE	10%
	PROJECT	10%

Boston University has an honor system, the work you submit for grading is expected to be your own. On your exams you will be expected to affirm that by signing a short statement to that effect, a copy of which is shown on the attached sample exam cover sheet. While the homework assignments don't require an individual signed statement like the exams, they are expected to be your own work. Your handing in of homework in your name for grading will be deemed to imply that it is your work. In the first case of homework plagiarism, the grade will be evenly divided among the students in question. In subsequent cases of plagiarism by the same students, each will receive a zero grade. Obvious and flagrant cases of plagiarism will be brought before the Committee on Students.

EK409 ENGINEERING ECONOMY  
FALL 2009  
LECTURE SCHEDULE

1. Thursday, September 3
2. Tuesday, September 8
3. Thursday, September 10
4. Tuesday, September 15
5. Thursday, September 17
6. Tuesday, September 22
7. Thursday, September 24
8. Tuesday, September 29
9. Thursday, October 1
10. Tuesday, October 6
11. Thursday, October 8, in class exam
12. Thursday, October 15\*
13. Tuesday, October 20
14. Thursday, October 22
15. Tuesday, October 27
16. Thursday, October 29
17. Tuesday, November 3
18. Thursday, November 5, project handout
19. Tuesday, November 10
20. Thursday, November 12, take home exam
21. Tuesday, November 17, take home exam due
22. Thursday, November 19
23. Tuesday, November 24
24. Tuesday, December 1
25. Thursday, December 3, project due date
26. Tuesday, December 8
27. Thursday, December 10

\*Tuesday, October 13 will have a Monday schedule of classes

Those students commuting by car who rely on finding on street parking are advised to keep informed of Red Sox game dates and times. Street parking on game afternoons is difficult at best.

EK409 ENGINEERING ECONOMY  
FALL 2009  
LECTURE TOPICS COVERED

1. Contracts, interest relationships
2. Economic equivalence, retirement plans
3. Inflation
4. Financing of new enterprises
5. Stock ownership, stock market, annual reports
6. Comparison of alternate economic choices
7. Decision making among alternatives
8. Replacement analysis
9. Break-even and minimum cost analysis
10. Indirect cost analysis and allocation
11. Preparation of cost proposals
12. Professional ethics, conflict of interest
13. Benefit and cost analysis
14. Inventories
15. Accounting systems
16. Depreciation
17. Income taxes
18. Patents, intellectual property, trademarks, copyright
19. Employment considerations
20. Corporate Annual Reports

READING ASSIGNMENTS

All reading assignments are from Thuesen and Fabrycky, ENGINEERING ECONOMY, 9th edition, Prentice Hall, 2000. From time to time supplementary material may be handed out in class. Whenever there is a handout, it will be circulated through the classroom, and copies will be available on the desktop nearest each door. If when entering class you notice a handout on that desk, please pick one up on your way to your seat. In the event you happen to miss a handout in class, extra copies of the handouts will be available in the rack outside 15 St. Mary's Street, Room 138.

TOPIC	PAGES		WEEK*
1. Introduction to Engineering Economy	1-34	NA	
2. Interest relationships(Chapter 3)	35-65	Sep	11
3. Economic Equivalence (Chapter 4)	72-102	Sep	18
4. Company Startup and Stockholders	Handout	Sep	25
5. Inflation (Chapter 5)	115-139	Oct	2
6. Bases for Comparison (Chapter 6)	152-180	Oct	9
7. Analysis of Alternatives (Chapter 7)	190-225	Oct	16
8. Evaluating Production Operations(Ch8)	244-284	Oct	23
9. Indirect Costs and Proposals	Handout	Oct	30
10. Evaluating Replacement Alts. (Ch. 9)	297-331	Nov	6
11. Evaluating Public Activities (Ch 10)	348-374	Nov	13
12. Accounting and Depreciation(Ch. 11)	388-414	Nov	27
13. Income Taxes (Chapters 12)	420-456	Dec	4
14. Estimating Economic Elements(Ch. 13)	468-499		
15. Scheduling, Planning, Employment			
16. Patents, Intellectual Property			

\* week ending



EK409 ENGINEERING ECONOMY  
ATTENDANCE AND HOMEWORK ASSIGNMENTS  
FALL 2009

An attendance sheet will be circulated in class each day. It is your responsibility to sign the sheet before the start of the next class in the classroom. Excessively and chronically late students may not get full credit for signing the attendance sheet after the end of the class.

ASSIGNMENT	DUE DATE
1.	Friday, Sep. 11
2.	Friday, Sep. 18
3.	Friday, Sep. 25
4.	Friday, Oct. 2
5.	Friday, Oct. 16
6.	Friday, Oct. 23
7.	Friday, Oct. 30
8.	Friday, Nov. 6
9.	Friday, Nov. 20
10,	Friday, Dec. 9

All homework problems will be assigned during the week of the due date. Assignments may be handed in early without penalty.

Graded homework can be picked up from the slots next to the office door.

Homework can be handed in at the office. If the door is open, just find the homework pile for that assignment. If the door is closed, please slide your homework under the door. DO NOT LEAVE YOUR HOMEWORK IN THE SLOTS NEXT TO THE OFFICE DOOR!!

SAMPLE EXAM COVER PAGE

EK409 ENGINEERING ECONOMY  
FIRST EXAMINATION

March 18, 2000

This exam is due on Wednesday, March 20, 2000 at 2:00PM sharp,  
At the start of the EK409S lecture

NAME: \_\_\_\_\_

ID #: \_\_\_\_\_

PROBLEM	POINTS
1	_____
2	_____
3	_____
4	_____
5	_____
TOTAL	_____

STATEMENT

This examination is my own work. I have not had access to anyone else's solution or notes for this exam, nor have I given anyone else access to my exam solution or notes.\* I have not collaborated or discussed this exam with anyone\*\* and I have neither received nor given any help in solving the problems I am submitting for grading.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

\* Anyone handing in another student's exam is deemed to have had access to that exam. If you can't hand your exam in on time yourself, contact the instructor for advice.

\*\* With the exception of the instructor.

## General Information

In order to bring current relevance to the teaching of engineering courses, to remain up-to-date on the state of the art of various technologies and to satisfy my own curiosity, I subscribe to and read(or scan) a number of publications. Some of these are available in my office for your use. If I am aware of the particular interests of some of my students, I look for and save copies of relevant, current articles about those interests. If you would like to indicate such interests to me on the appropriate line of your registration form for this course, I'll try to spot relevant articles and call your attention to them or provide you with copies for your use and information. Feel free to indicate your interest in a company, industry, technology, product line or one of the publications listed below. A partial list of publications follows.

### Daily:

- The New York Times
- The Wall Street Journal
- The Boston Globe
- The Nashua Telegraph

### Weekly:

- Time
- Newsweek
- US News and World Report
- Forbes
- Business Week
- Aviation Week\*
- The New Yorker

### Monthly:

- Popular Science\*
- Popular Mechanics\*
- Technology News(MIT)\*
- The Atlantic
- Manufacturing Engineering\*
- Automotive Industries\*
- Aerospace Engineering\*
- Mechanical Engineering\*
- Marine News\*
- Invention and Technology\*
- Maritime Reporter\*
- Road and Track\*
- Marine Technology\*
- Yachting\*

### Sporadically:

- The Times(London)
- Der Spiegel
- International Herald Tribune

\*Publications marked with an asterisk are routinely available in my office

EK409 ENGINEERING ECONOMY  
FALL 2009

CLASS LIST REGISTRATION

Note: This information and statement simply confirm your intention to attend this course, and your understanding of the syllabus, the grading policy and the honor system. It is strictly for the use of the instructor and the teaching assistant in the course. This information is necessary to list you on the grade sheet for the course. Since the official class lists are not available until well after the start of the semester, and even then are not always complete, you cannot be sure of being on the grade sheet until you have submitted this information.

NAME: \_\_\_\_\_

ID#: \_\_\_\_\_

MAJOR: \_\_\_\_\_

TERM PHONE #: \_\_\_\_\_ \*

e-mail address: \_\_\_\_\_ \*

SPECIAL INTERESTS\*\* \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\* Listing your phone number and/or e-mail address will allow us to get in touch with you in case of excessive absences, missed assignments or exams or to make wake-up calls.

\*\*See General Information sheet, preceding page

I acknowledge the receipt of the EK409 ENGINEERING ECONOMY syllabus for the FALL 2009 Semester. I have read and I understand the grading policy and the exam dates. I have also read the sample exam cover and I understand the honor policy and the honor system statement which I am expected to sign with each exam in the course.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE