

EK409 ENGINEERING ECONOMY

FALL 2014

COURSE SYLLABUS

Prof. T. A. de Winter

Office : 15 St. Mary's Street, Room 138

Phone: (617) 353 9893(office) (603) 878 2760(home)

Fax: (617) 353 5548 email tdw@bu.edu

Office hours: Tuesday and Thursday 7AM to Noon

Wednesday 7AM-Noon, 1-3PM

Friday: 7AM-Noon

Text: Engineering Economy, Thuesen and Fabrycky, 9th edition ISBN 0-13-028128-X

Classroom: Photonics PHO 203

Time: Tuesdays and Thursdays 12:00Noon-2:00PM

GRADING

ATTENDANCE: Attendance will be taken and will count as 10% of the semester grade. If you have 2 or fewer absences, you will get full credit for attendance.

EXAMS: There will be a takehome exam from October 2 to October 7, a takehome exam from November 6 to November 11 and a final exam, also takehome. The final exam will be optional for those students who have a better than 80% in the course at the end of the semester. While the final exam schedule is not ready yet, those students taking the final can fax it in, and do not have to be on campus to take the exam. The exam average will count as 60% of the semester grade.

HOMEWORK: There will be at least 10 homework assignments. The lowest homework grade will be dropped, the homework average will count as 20% of the semester grade.

PROJECT: There will be a project, to be done by teams of 5-7 students, to modify the annual report of a company which manufactures a product. The project grade, except in rare cases, will be same for every member of a team and will count as 10% of the semester grade.

FINAL GRADES: Those students, who have an average of 90% or better, have earned an A in the course and are exempt from taking the final. Students with an average of 80% (a B) or better are also exempt from taking the final exam, but may, at their option, choose to take the final exam to improve their course average.

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

EK409 ENGINEERING ECONOMY
FALL 2014

LECTURE SCHEDULE

- 1 Tuesday, September 2
- 2 Thursday, September 4
- 3 Tuesday, September 9
- 4 Thursday, September 11
- 5 Tuesday, September 16
- 6 Thursday, September 18
- 7 Tuesday, September 23
- 8 Thursday, September 25
- 9 Tuesday, September 30
- 10 Thursday, October 2, takehome exam
- 11 Tuesday, October 7, exam due
- 12 Thursday, October 9
13. Thursday, October 16*
14. Tuesday, October 21
15. Thursday, October 23
16. Tuesday, October 28
17. Thursday, October 30
18. Tuesday, November 4
19. Thursday, November 6, takehome exam
20. Tuesday, November 11, exam due
21. Thursday, November 13
22. Tuesday, November 18
23. Thursday, November 20
24. Tuesday, November 27
25. Tuesday, December 2
26. Thursday, December 4
27. Tuesday, December 9, last EK409 class

Monday, October 13 is a holiday, on Tuesday, October 14 a Monday schedule of courses will be held

An attendance sheet will be circulated in class each day. It is your responsibility to sign the sheet before the class is adjourned. If you arrived in class after the sheet has passed your seat, be sure to sign the sheet at the desk before leaving the classroom. Excessively and regularly late students may not get full credit for attendance for signing the attendance sheet after the end of class. .No laptops are allowed during any of the EK409 lectures.

EK409 ENGINEERING ECONOMY
FALL 2014
LECTURE TOPICS

1. Contracts, proposals, quotations, purchase orders
2. Interest relationships, examples
3. Financing of startup companies
4. Stock ownership, stock market, options
5. Inflation
6. Comparison of alternative economic choices
7. Decision making among alternatives
8. Incremental return on investment
9. Replacement alternatives
10. Break-even and minimum cost analysis
11. Indirect cost categories and allocation
12. Preparation of cost proposals
13. Professional ethics, protocol, conflict of interest
14. Benefit and cost analysis
15. Inventories
16. Accounting, bookkeeping, annual reports
17. Depreciation
18. Income taxes, corporate and individual
19. Patents, intellectual property
20. Employment contracts, offers, employee status

READING ASSIGNMENTS

TOPIC	PAGES	WEEK*
1, Introduction to Engineering Economy	1-34	-
2. Interest relationships (Chapter 3)	35-65	Sept. 12
3. Economic equivalence	72-102	Sept. 19
4. Company startup and stockholders	Handout	Sept. 26
5. Inflation (Chapter 5)	115-139	Oct. 3
6. Bases for comparison (Chapter 6)	152-180	Oct. 10
7. Analysis of alternatives (Chapter 7)	190-225	Oct. 17
8. Evaluating production (Chapter 8)	244-284	Oct. 24
9. Indirect costs and proposals	Handout	Oct. 31
10. Evaluating replacement (Chapter 9)	297-331	Nov. 7
11. Annual Reports	Handout	Nov. 7
11. Evaluating public activities (Chapter 10)	344-374	Nov. 14
12. Accounting, depreciation (Chapter 11)	388-414	Nov. 21
13. Income taxes (Chapter 12)	420-456	Dec. 5

* week ending

EK409 ENGINEERING ECONOMY
FALL 2014
HOMEWORK ASSIGNMENTS

ASSIGNMENT	DUE DATE
1	Friday, September 12
2	Friday, September 19
3	Friday, September 26
4	Friday, October 3
5	Friday, October 10
6	Friday, October 17
7	Friday, October 24
8	Friday, October 31
9	Friday, November 14
10	Friday, November 21
11	Friday, December 5

Graded homeworks can be picked up from the slots outside the office door. Homeworks can be handed in at the office. If the door is open, there is a homework stack on the chair next to the door. If the door is closed, please slide your homework under the door.

DO NOT LEAVE YOUR HOMEWORK IN THE MAIL SLOTS NEXT TO THE OFFICE DOOR, THEY ARE FOR GRADED HOMEWORKS ONLY.

From time to time, additional material will be handed out in class. When there is a handout, including homework assignments, it will be circulated through the classroom, and copies will be available on the desktops nearest the doors. If, when entering class, you notice a handout on the corner desk, pick one up on the way to your seat. In the event you miss a handout in class, extra copies will be available in the office or in the slots outside the door.

The work you submit for grading and credit is expected to be your own effort. On your exams you will be required to affirm that by signing a short statement to that effect, a copy of which is shown on the attached sample exam cover page. While homework assignments don't require an individual signed statement like the exam, they are expected to be your own work and your submission of the homework in your name will be taken as confirmation of this. In the first case of plagiarism on homework, the homework grade will be evenly divided among the students in question. In subsequent cases involving the same students, a zero grade will be given. Obvious and flagrant recurrence may be brought before the Committee on Students.

EK409 ENGINEERING ECONOMY
FALL 2014
CLASS LIST REGISTRATION

NAME _____

ID NUMBER _____

MAJOR _____

TERM PHONE* _____

E-MAIL ADDRESS _____

SPECIAL INTERESTS** _____

*Listing your phone and email will help us get in touch with you in case of missing homework and occasionally for wakeup calls.

**Special interests refer to the publication list which will be handed out in hard copy in class.

I acknowledge the receipt of the EK409 Syllabus for the Fall 2014 Semester. I have read and understand the grading policy, and the requirement for homework and the project to be the original work of the student named on the work.

SIGNATURE

DATE