

EK409 ENGINEERING ECONOMY
FALL 2013
COURSE SYLLABUS

Prof. T. A. de Winter

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Office Hours: Monday By appointment only

Tuesday 7:00- 12NOON

Wednesday 7:00-11:30AM, 1:00-4:00PM

Thursday 7:00-12NOON

Friday 7-11:15AM

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

Classroom: 8 St. Mary's Street, PHO 205

Time: Tuesday, Thursday 12:00-2:00PM

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 take home exam from Tuesday, October 8 to Thursday, October 10. The take home exam from November 14 to November 19 will also be open book. There will be a final take home exam. The average exam grade will count as 60% of the semester grade.

HOMEWORK: There will be at least 10 homework assignments which are due on assigned dates. The lowest homework grade will be dropped, the homework average will count 20% of the semester grade.

PROJECT: There will be a project, to be done by teams of 4 to 6 students. The project will be the modification of the annual report of a manufacturing company or the preparation of a 2 year business plan for a manufacturing company. The project grade will be 10% of the semester grade.

FINAL GRADES: Those students, who on the last day of class have an average of 90% or better, have earned an A in the course and are exempt from taking the final exam. Students with an average of 80% or better are also exempt from taking the final exam, but may, at their discretion, choose to take the final to improve their course average. Students with a course average of less than 80% on the last day of class have not demonstrated evidence of having sufficient working knowledge of the course material and are required to take the final exam.

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

EK409 ENGINEERING ECONOMY
FALL 2013
LECTURE SCHEDULE

1. Tuesday, September 3
2. Thursday, September 5
3. Tuesday, September 10
4. Thursday, September 12
5. Tuesday, September 17
6. Thursday, September 19
7. Tuesday, September 24
8. Thursday, September 25
9. Tuesday, October 1
10. Thursday, October 3
11. Tuesday, October 8, take-home exam
12. Thursday, October 10, take home exam due
13. Thursday, October 17*
14. Tuesday, October 22
15. Thursday, October 24
16. Tuesday, October 29
17. Thursday, October 31
18. Tuesday, November 5
19. Thursday, November 7
20. Tuesday, November 12
21. Thursday, November 14, take home exam
22. Tuesday, November 19, take home exam due
23. Thursday, November 21
24. Tuesday, November 26
25. Tuesday, December 3
26. Thursday, December 5
27. Tuesday, December 10, last EK409 class

* Monday, October 14, 2013 is a holiday, Tuesday will have a Monday class schedule

An attendance sheet will be circulated during each lecture. It is your responsibility to sign the sheet. If the attendance sheet happens to pass your seat before you entered, please sign the sheet at the desk at the end of the lecture.

EK409 ENGINEERING ECONOMY
FALL 2013
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 alternatives
9. Break-even and minimum cost analysis
10. Indirect cost analysis and allocation
11. Preparation of cost proposals
12. Professional ethics, protocol, conflict of interest
13. Benefit and cost analysis
14. Inventories
15. Accounting systems, double entry bookkeeping
16. Depreciation
17. Income taxes
18. Patents, intellectual property
19. Employment contracts, offers
20. Corporate annual reports

READING ASSIGNMENTS

All reading assignments are from the required text listed above.

TOPIC	PAGES	WEEK*
1. Introduction to Engineering Economy	1-34	-
2. Interest relationships (Chapter 3)	35-65	Sep. 13
3. Economic equivalence (Chapter 4)	72-102	Sep. 20
4. Company startup and stockholders	Handout	Sep. 27
5. Inflation (Chapter 5)	115-139	Oct. 4
6. Bases for comparison (Chapter 6)	152-180	Oct. 11
7. Analysis of alternatives (Chapter 7)	190-225	Oct. 18
8. Evaluating production (Chapter 8)	244-284	Oct. 25
9. Indirect costs and proposals	Handout	Nov 1
10. Evaluating replacement (Chapter 9)	297-331	Nov. 8
11. Evaluating public activities Chapter 10)	348-374	Nov. 15
12. Accounting and depreciation (Chapter 11)	388-414	Nov. 22
13. Income Taxes (Chapter 12)	420-456	Dec. 6
14. Estimating cost elements (Chapter 13)	468-499	Dec. 13

*Week ending

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HOMEWORK ASSIGNMENTS
FALL 2013

ASSIGNMENT	DUE DATE
1	Friday, September 6
2	Friday, September 13
3	Friday, September 20
4	Friday, September 27
5	Friday, October 4
6	Friday, October 11
7	Friday, October 18
8	Friday, October 25
9	Friday, November 1
10	Friday, November 22
11	Friday, December 6

All homework assignments will be handed out during the week of the due date. 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 MAIL SLOTS NEXT TO THE OFFICE DOOR, THEY ARE FOR GRADED HOMEWORK ONLY!!!

From time to time supplementary material may be handed out in class. Whenever there is a handout, including homework assignments, 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 the corner desk, please pick one up on the way to your seat. In the event you happen to miss a handout in class, extra copies of the handout will be available in the rack outside Room 138, 15 St. Mary's Street.

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. While homework assignments don't require an individual statement like the exam, they are expected to be your own work and your submission of homework in your name will be deemed to confirm that it is your work. In the first case of apparent 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 on those homeworks. Obvious and flagrant cases may be brought before the Committee on Students.

SAMPLE EXAM COVER PAGE

EK409 ENGINEERING ECONOMY
SPRING 2010

March 31, 2010

This exam is due on Monday, April 5, 2010 at 12 noon sharp, at the start of the EK409 lecture.

NAME: _____

ID # : _____

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

TOTAL	_____

STATEMENT

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

SIGNATURE

DATE

*with the exception of the instructor

**Anyone handing in someone else's exam is deemed to have had access to that exam. If you cannot hand your exam in on time yourself, contact the instructor for advice.

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CLASS LIST REGISTRATION

Note: This information and statement simply confirm your intention to attend this course, and your receipt and understanding of the syllabus. It is strictly for the use of the instructor.

NAME: _____

ID # : _____

MAJOR: _____

TERM PHONE #: _____

e-mail address: _____

SPECIAL INTERESTS** _____

** See general information sheet, preceding page

I acknowledge the receipt of the EK409 ENGINEERING ECONOMY Syllabus for the FALL 2013 semester. I have read and I understand the grading policy and the due dates for exams. I have also read the sample exam cover and I understand the statement which I am expected to sign with each exam in the course.

SIGNATURE

DATE