

UIC Department of Mechanical and Industrial Engineering
IE 201 - Financial Engineering
Spring 2009

Instructor

Elodie Goodman (Adida), Department of Mechanical and Industrial Engineering
Office: 3025 ERF (842 W. Taylor St.)
Phone: 312-996-8777
email: elodie@uic.edu
Office hours (lecture questions): Monday and Wednesday 12-1pm

Teaching Assistants

- Maryam Haji, Department of Mechanical and Industrial Engineering
Office: 4209 SEL (950 S. Halsted St.)
Phone: 312-355-4677
email: mhaji2@uic.edu
Office hours: Monday and Wednesday 4-5:30pm
- Yuzhou Wu, Department of Mechanical and Industrial Engineering
Office: 4209 SEL (950 S. Halsted St.)
Phone: 312-355-4677
email: ywu33@uic.edu
Office hours: Tuesdays 10am-12pm, Thursdays 10am-12pm and 1-3pm

If you cannot make it to the instructor's or TA's office hours but would like to meet with them, feel free to contact them and make an appointment.

Meeting times

The class meets for lecture on Mondays and Wednesdays at 11-11:50am in D1 Lecture Center. Quiz/ recitation sessions: Friday 10-10:50am (TA: Yuzhou), 11-11:50am (TA: Yuzhou), 12-12:50pm (TA: Maryam) or 2-2:50pm (TA: Maryam) in SEL 3280 (starting on January 23rd).

You may not attend a quiz session other than the one you registered for. Please arrive on time and turn your cell phones off during the lectures and quizzes.

Spring 2009 Catalog Description

3 hours. Principles and techniques of economic analysis in engineering and management science. Basic probability theory and decision problems under risk and uncertainty. Prerequisite(s): MATH 181.

Textbook

L. Blank and A. Tarquin, *Engineering Economy*, 6th Edition, Mc Graw Hill, 2005. Topics to be covered: Chapters 1-8.

Web page

Course-related information announcements, and homework assignment and solutions: <http://www.uic.edu/classes/ie/ie201ea>

Homework

Homeworks are assigned one week in advance on the course web page, and are due **in person** on Fridays at the beginning of your quiz session. A homework turned in by someone else will not be accepted. A homework turned in in a quiz session other than the one you signed up for will not be accepted. No late homework will be accepted. Students with documented medical reasons may be excused, upon showing proof to the instructor. The homework solutions will be posted on the course web page on the afternoon of the due date.

Graded homeworks will be returned in person at the following quiz session, and then will be available for pick up at the TA's office hours.

It is a good idea to retain a copy of your homework before you turn it in. This lets you compare them with our solutions right away, rather than waiting a week until they come back to you graded.

Collaboration with other students is encouraged. You may discuss with your classmates possible approaches to solving the problems in the homework, but **each student should write her/his solution independently.**

Quizzes

There will be a short quiz at the beginning of each quiz session (starting on January 23rd) except the week of a midterm exam. The questions are direct applications of the most recent material (focusing on the **previous 2-3 lectures**). Note that on a given Friday, the material covered in the quiz will not in general be the same as the material covered in the homework that is due on that day. Immediately following the quiz, the

TA will provide the solution. In the remaining of the quiz session the TA will solve practice problems. The graded quizzes will be returned in person at the following quiz session, and then will be available for pick up at the TA's office hours.

Please bring your calculator and textbook to every quiz session.

Study habits

In order to get the most out of the course, try to stay ahead. By the weekend, make sure you have reviewed the material covered in the lectures of the preceding week. Read the assigned material, and make sure to review your lecture notes. This way, the next lectures will be much more informative and meaningful.

Feel free to go to the instructor's or the TA's office hours if you have questions regarding the material covered in lectures or quiz sessions, homeworks solutions, or if you want to discuss your work.

In the exams and the homeworks, we expect you to **concisely explain your reasoning**. Giving a numerical answer, even correct, does not guarantee full credit if you don't justify it. Partial credit may be given if you show a correct understanding of the problem and the concepts involved.

Grading

Homeworks, quizzes, midterms, and final exams are graded numerically. The course grade will be determined as follows:

Homework and class participation	10 %
Quizzes	10%
Midterm I	20 %
Midterm II	20 %
Final Exam	40 %

The homework and class participation grade is evaluated based on class attendance, class participation, and the average of all homework grades except the lowest one. The quizzes grade is evaluated based on the average of all quiz grades except the lowest one.

Tentative course outline

Week 1	Jan. 12 - 16	Chapter 1	HW 1 assigned on Jan. 16
Week 2	Jan. 21 - 23	Chapter 2 (1)	HW 1 due on Jan. 23 HW 2 assigned on Jan. 23 Quiz 1 on Jan. 23
Week 3	Jan. 26 - 30	Chapter 2 (2)	HW 2 due on Jan. 30 HW 3 assigned on Jan. 30 Quiz 2 on Jan. 30
Week 4	Feb. 2 - 6	Chapter 3 (1)	HW 3 due on Feb. 6 HW 4 assigned on Feb. 6 Quiz 3 on Feb. 6
Week 5	Feb. 9 - 13	Chapter 3 (2)	HW 4 due on Feb. 13 HW 5 assigned on Feb. 13 Quiz 4 on Feb. 13
Week 6	Feb. 16 - 20	Chapter 4 (1)	HW 5 due on Feb. 20 Quiz 5 on Feb. 20
Week 7	Feb. 23 - 27	Chapter 4 (2)	Midterm I on Feb. 23 HW 6 assigned on Feb. 27
Week 8	Mar. 2 - 6	Chapter 5 (1)	HW 6 due on Mar. 6 HW 7 assigned on Mar. 6 Quiz 6 on Mar. 6
Week 9	Mar. 9 - 13	Chapter 5 (2)	HW 7 due on Mar. 13 HW 8 assigned on Mar. 13 Quiz 7 on Mar. 13
Week 10	Mar. 16 - 20	Chapter 6 (1)	HW 8 due on Mar. 20 HW 9 assigned on Mar. 20 Quiz 8 on Mar. 20
Week 11	Mar. 30 - Apr. 3	Chapter 6 (2)	HW 9 due on Apr. 3 Quiz 9 on Apr. 3
Week 12	Apr. 6 - 10	Chapter 7 (1)	Midterm II on Apr. 6 HW 10 assigned on Apr. 10
Week 13	Apr. 13 - 17	Chapter 7 (2)	HW 10 due on Apr. 17 HW 11 assigned on Apr. 17 Quiz 10 on Apr. 17
Week 14	Apr. 20 - 24	Chapter 8 (1)	HW 11 due on Apr. 24 Quiz 11 on Apr. 24
Week 15	Apr. 27 - May 1	Chapter 8 (2)	
	May 4 - 8	(date / time TBA)	Final exam