

UB - Department of Industrial and Systems Engineering
IE 320 Engineering Economy
Spring 2012

1 COURSE CONTACT

- Class Meetings: M W F, 9:00 AM - 9:50 AM [110 Knox Hall](#)
- Course Website: <http://ublearns.buffalo.edu>
- Instructor: Dr. Changyun Kwon
 - E-mail: chkwon@buffalo.edu
 - Office: 400 Bell Hall
 - Office hours: Wed 3:00 PM - 4:00 PM, or by appointment
- Teaching Assistants:
 - Mr. Paul Berglund
 - * E-mail: berglund@buffalo.edu
 - * Office: 333 Bell Hall
 - * Office hours: Thur 11:00 AM - 12:00 PM, or by appointment
 - Ms. Tolou Esfandeh
 - * E-mail: tolouesf@buffalo.edu
 - * Office: 416 Bell Hall
 - * Office hours: Fri 11:00 AM - 12:00 PM, or by appointment
 - Ms. Gina Galindo Pacheco
 - * E-mail: ggalindo@buffalo.edu
 - * Office: 435 Bell Hall
 - * Office hours: Tue 11:00 AM - 12:00 PM, or by appointment



When you email the instructor or TA, you need to include your name and the course number (IE 320). **Please state “IE 320” explicitly in the subject of your email messages.** Also, it is very helpful to set up your email client correctly so that your email message has your name as the sender.

2 COURSE DESCRIPTION

Applied concepts of economic decision making, including present worth analysis, cash-flow equivalence, replacement analysis, equipment selection. Open to students in any discipline.

3 TOPICS COVERED

- Engineering Economic Decisions
- Interest Rate and Economic Equivalence
- Present-Worth Analysis

- Annual Equivalent-Worth Analysis
- Rate-of-Return Analysis
- Analysis of Project Cash Flows
- Capital-Budgeting Decisions

4 REQUIRED TEXTBOOK

- Chan S. Park, *Contemporary Engineering Economics (5th Edition)*, Prentice Hall, 2010.

5 GRADING

There will be 10 (approximately) assignments, 7 (approximately) quizzes, 2 midterm exams and 1 final exam. While students are welcome to discuss homework problems with colleague students, but each student must hand in own write-up. The grading will be determined as follows:

- Assignments: 15% for all assignments (will be announced via email; one lowest-scored assignment will be dropped)
- Quiz: 15% for all quizzes (will be taken approximately every two weeks; one lowest-scored quiz will be dropped)
- Midterm I: 20% (Tentatively scheduled on February 24, in class)
- Midterm II: 20% (Tentatively scheduled on March 21, in class)
- Final: 30% (Tentatively scheduled on April 30, in class)

6 QUIZ AND PROBLEM SOLVING SESSION

When we take a quiz, we will also have a problem solving session for helping homework assignments and exam preparation. Quizzes are tentatively scheduled as follows:

- Jan 23, Monday
- Feb 6, Monday
- Feb 22, Wednesday
- Mar 19, Monday
- Apr 9, Monday
- Apr 27, Friday

7 COURSE POLICY

- Students are expected to check his or her email and the course website frequently, at least once a day, especially before the class day. Important announcements including homework assignments will be made via emails and the course website.
- Exams must be taken on the dates scheduled. Unless there is a medical emergency, make-up exams will not be given. Proof will be required.
- No kind of cheating is allowed. If you do, you will not receive a grade higher than 'F'.
- Homework will be assigned at least a week prior to the due dates.
- Please turn in your assignments before or on the due date. **No late turn-in will be accepted.**

- Quizzes will be based on homework problems. Quizzes are not designed to give students more burden. Quiz problems will be made easy enough for students who solved homework problems by themselves.
- There is simply one very important rule in learning: keep asking questions to yourself. The TAs and the instructor will help you.

8 ACADEMIC HONESTY AND INTEGRITY

The University at Buffalo has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for appropriate citation of sources, and for respect for others academic endeavors. By placing their name on academic work, students certify the originality of all work not otherwise identified by appropriate acknowledgments. Please take your time to visit <http://academicintegrity.buffalo.edu/>

One simple rule: If you fail to meet the UB policy and the instructor's policy for academic honesty and integrity, you will at least receive 'F', and it is possible that you are suspended or expelled from the university.

9 EXAMPLES OF ACADEMIC DISHONESTY

Academic dishonesty includes, but is not limited to, the following:

- *Previously submitted work.* Submitting academically required material that has been previously submitted in whole or in substantial part in another course, without prior and expressed consent of the instructor.
- *Plagiarism.* Copying or receiving material from any source and submitting that material as one's own, without acknowledging and citing the particular debts to the source (quotations, paraphrases, basic ideas), or in any other manner representing the work of another as one's own.
- *Cheating.* Soliciting and/or receiving information from, or providing information to, another student or any other unauthorized source (including electronic sources such as cellular phones and PDAs), with the intent to deceive while completing an examination or individual assignment.
- *Falsification of academic materials.* Fabricating laboratory materials, notes, reports, or any forms of computer data; forging an instructor's name or initials; resubmitting an examination or assignment for reevaluation which has been altered without the instructor's authorization; or submitting a report, paper, materials, computer data, or examination (or any considerable part thereof) prepared by any person other than the student responsible for the assignment.
- *Misrepresentation of documents.* Forgery, alteration, or misuse of any University or Official document, record, or instrument of identification.
- *Confidential academic materials.* Procurement, distribution or acceptance of examinations or laboratory results without prior and expressed consent of the instructor.
- *Selling academic assignments.* No person shall sell or offer for sale to any person enrolled at the University at Buffalo any academic assignment, or any inappropriate assistance in the preparation, research, or writing of any assignment, which the seller knows, or has rea-

son to believe, is intended for submission in fulfillment of any course or academic program requirement.

- *Purchasing academic assignments.* No person shall purchase an academic assignment intended for submission in fulfillment of any course or academic program requirement.

10 DISABILITY SERVICES

If you have a disability and may require some type of instructional and/or examination accommodation, please inform me early in the semester so that we can coordinate the accommodations you may need. If you have not already done so, please contact the Disability Services office. The office is located at 25 Capen Hall and the telephone number is (716) 645-2608. The website is at: <http://www.ub-disability.buffalo.edu/>