Course Syllabus

Credits: 3
Class Hours: MWF 3:15PM-5:45PM
Classroom: 301 Zachry

Instructors: Sergiy Butenko
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Teaching Assistant: Yuxuan ‘Peter’ Zhu
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Course Description

Principles of economic equivalence; time value of money; analysis of single and multiple investments; comparison of alternatives; capital recovery and tax implications; certainty; uncertainty; risk analysis; public sector analysis and break-even concepts.

Prerequisite: MATH 152.


Online Learning Center: Maintained by the Publisher and contains useful material relevant to the course.
URL: http://www.mhhe.com/blank6
Username: blankstudent
Password: blank6e

Assumed Skills: Basic Excel and manipulation of spreadsheets.

Computer Accounts: The Industrial and Systems Engineering Department maintains an undergraduate computer lab that has (almost) 24/7 access. In order to use this facility, students are expected to establish their accounts within the first week of the course. The lab help desk is located at room 224A.
Announcements: A web site for this course will be maintained on the IE web server as mentioned above. This site will contain announcements and other information concerning the course. In addition, it will be used to distribute homework assignments, class notes, or other material as required during the course. Please check the web site daily – any information posted on it will be as valid as if it was mentioned in class.

Topics:

- Foundations of Engineering Economy (Chap. 1)
- Engineering Economy Factors (Chap. 2-3)
- Nominal and Effective Interest Rates (Chap. 4)
- Present Worth Analysis (Chap. 5)
- Annual-Worth Analysis (Chap. 6)
- Rate of Return Analysis (Chap. 7-8)
- Benefit/Cost Analysis (Chap. 9)
- Comparing the Alternatives (Chap. 10)
- Replacement/Retention Analysis (Chap. 11)
- Selection of Projects under budget limitations (Chap. 12)
- Breakeven Analysis (Chap. 13)
- Inflation (Chap. 14)
- Depreciation Methods (Chap. 16)
- After-Tax Economic Analysis (Chap. 17)
- Sensitivity Analysis (Chap. 18)

Grading:

- Homework and quizzes – 25%
- Three Exams – 25% each

Final grades will be assigned as follows: 90-100% A, 80-90% B, 70-80% C, 60-70% D, < 60% F.

Class Policies

Homework assignments must be handed in at the start of class on the day they are due. The grade for a late submission will be reduced by 20% of the maximum possible grade for each day overdue.

Quizzes will be short (10-15mins), in-class and unannounced. No make-ups will be given for missed quizzes.

Make-up test can be taken only if the student presents a written authorized excuse for the missed test.
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room 126 of the Koldus Building, or call 845-1637.

Academic Integrity: “Aggies do not lie, cheat, or steal, nor do they tolerate those who do.” It is the responsibility of students and instructors to help maintain scholastic integrity at the university by refusing to participate in or tolerate scholastic dishonesty. (http://www.tamu.edu/aggiehonor)