

1. Course number and name: SE 261 – Introduction to the Business Side of Engineering
2. Credits and contact hours: 1-2 credits, 16-26 hours
3. Instructor or course coordinator's name: Harry S. Wildblood, 105 Transportation Building, Phone: (217) 265-5359, Email: wildblod@illinois.edu
4. Text book, title, author, and year: No Textbook
 - a. Other supplemental materials: Course lecture notes, sample exams, homework and keys, sample reports, etc., are all available online on Compass 2g.
5. Specific course information
 - a. brief description of the content of the course (catalog description): Important elements and metrics of business and contemporary engineering economics: wealth creation, cash flow diagrams, equivalence, internal rate of return, net present value, present worth, breakeven analysis, financial calculations using MS Excel, companies, corporations, profits, prices, balance sheets, income statements, and the basics of business plan writing. Particular emphasis is given to preparation for the economic analysis component of engineering practice. One credit hour.
 - b. prerequisites or co-requisites: Sophomore standing
 - c. Required course for SE and IE majors
6. Specific goals for the course
 - a. specific outcomes of instruction:
 - understand the basic mathematics and applications of time-value of money calculations and economic equivalence [1a]
 - evaluate/design alternatives to meet specific economic and business requirements [2]
 - make decisions based on the National Society of Professional Engineers Code of Ethics for Engineers [4a]
 - develop an original business plan for consideration by investors [3]
 - b. explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course:
 - (1a) an ability to identify, formulate, and solve complex engineering problems
 - (2) an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
 - (3) an ability to communicate effectively with a range of audiences.
 - (4a) an ability to recognize ethical and professional responsibilities in engineering situations
7. Brief list of topics to be covered: wealth creation, companies, financial statements, economic equivalence, cash flow diagrams, present worth, effective interest rates, internal rate of return, capital projects, economic decision making with various equivalence tools and techniques, the use of MS Excel in economic decision making, business plan writing, financial metrics, balance sheets, income statements
8. Grade determination: Course Grades: 90 – 100 A, 80 – 89.999 B, 70 – 79.999 C, 60 – 69.999 D, below 60 F, (no +/- grades will be assigned). Weighting of coursework for grading purposes:

Section G (2 credits)

- 10%: Individual homework assignments
- 9%: Two unannounced quizzes (3% each)
- 20.25%: Business Plan Project
- 22.25%: Exam 1
- 20.25%: Exam 2 (cumulative exam)
- 20.25%: Final Exam (cumulative exam)

Section H (1 credits)

- 10%: Individual homework assignments
- 6%: Two unannounced quizzes (3% each)
- 42%: Exam 1
- 42%: Exam 2 (cumulative exam)

9. Additional Information: (Optional information added here)

Lecture/Exam Location/Time: 101 Transportation Building / 2-2:50 PM TR

Lecture Preparations: As a rule, read and study the next 25 slides for each lecture. You will be responsible for this material for the quizzes.

Exams: Exams will be given during the normal class period. You will have 50 minutes to complete the exams. Arrive promptly as the exams will begin on the hour. Be prepared with calculators, batteries, and pencils for exams. Cell phones must be off. No cheat sheets, lists of equations or notes permitted. A doctor's excuse is required for late homework or missing an exam.

Homework: Individual homework assignments must be uploaded in pdf (Adobe Acrobat) file format to Compass by 1:30 PM on the date due indicated in the course syllabus. You will have two attempts to upload the homework. Late homework will have 10 points deducted. Homework will not be accepted after the answer key is visible on compass.

Graded Exams and Homework Pickup: You may view your graded exams in the grader's office during office hours, or by appointment. Exam papers may not be taken from the grader's office. After 3 weeks, papers will be shredded.

Graders:

Name	Email	Office	Hours	Grading:
Sharan Balasubramanian	sharanb2@illinois.edu	??	??	All graded items

Tentative Schedule of Class sessions:

Session	Day	Date	Topic	Homework Due
1	T	1/29/19	Wealth, Companies, Decisions	
2	R	1/31/19	Wealth, Companies, Decisions	
3	T	2/5/19	Financial Statements	HW-1
4	R	2/7/19	Financial Statements	
5	T	2/12/19	Financial Statements	HW-2
6	R	2/14/19	Financial Statements	
7	T	2/19/19	Time Value of Money	HW-3
8	R	2/21/19	Time Value of Money	
9	T	2/26/19	Time Value of Money	HW-4
10	R	2/28/19	Exam 1	
11	T	3/5/19	Time Value of Money	
12	R	3/7/19	Time Value of Money	
13	T	3/12/19	Time Value of Money	HW-5
14	R	3/14/19	Time Value of Money	
15	T	3/19/19	Spring Break	
16	R	3/21/19	Spring Break	
17	T	3/26/19	Review and Misc.	HW-6
18	R	3/28/19	Exam 2 (end 1-credit course)	
19	T	4/2/19	Time Value of Money	
20	R	4/4/19	Time Value of Money	
21	T	4/9/19	Time Value of Money	HW-7

22	R	4/11/19	Time Value of Money	
23	T	4/16/19	Time Value of Money	HW-7
24	R	4/18/19	Time Value of Money	
25	T	4/23/19	Business Plans	HW-8
26	R	4/25/19	Business Plans	
27	T	4/30/19	Final topics	Business Plan Due
28	R	5/2/19	Review and Misc.	
29	T	5/7/19	Final Exam 1:30-4:30 PM	