

Southern Illinois University

Cost Estimating

IT 390 Syllabus

- I. COURSE NUMBER & TITLE: IT 390, Cost Estimating
- II. CREDIT HOURS: 3 credit hours
- III. PREREQUISITE: Mathematics 111. However, you will have to own and operate successfully a calculator that can handle powers and logarithms and has a memory. You should also know how to handle "order of operations" in using your calculator.
- IV. DESCRIPTION OF COURSE: Study of the techniques of cost estimation for products, processes, equipment, projects, and systems.
- V. TEXTBOOK: Ostwald, Phillip F. & McLaren, Timothy S., Cost Analysis and Estimating for Engineering and Management, Prentice-Hall, 2004. ISBN 0-13-142127-1.
- VI. COURSE OBJECTIVES: Upon completion of the course the student will:
 - a) Be able to apply the principles and techniques used in the world of costing and pricing.
 - b) Be able to apply the principles of Engineering Economy to real world problems.
- VII. STUDENT RESPONSIBILITIES:
 - a) All examinations must be taken at the scheduled time. If not, there will be an immediate 10% penalty and an additional penalty of 10% per week for every week they are late. Exceptions to this policy will be for TDY, emergency leave, etc.. Upon return from TDY, etc., the student has one week to complete the late work before the late penalty kicks in.
 - b) All work submitted late **MUST HAVE ATTACHED DOCUMENTATION** to support it's being considered for "late - excused" status. Failure to submit said documentation will be grounds for refusing such status by the instructor. Talking to the instructor in the hallway during break, etc. does not constitute "documentation".
- VIII. INCOMPLETES:

It is the policy of the professor not to give Incomplete grades. Occasionally, one realizes that events do occur which may merit the awarding of an Incomplete. In accordance with written university policy, an Incomplete grade will not be granted for any reason in a case where the student would not pass the course if all unfinished assignments were converted to zero points. Effectively, this means that you have to have completed around 75% of the course to even be considered for an Incomplete. In the event that the student feels an incomplete is applicable in their case, it is their responsibility to document the reason in writing and to secure it's approval. If you fail to complete this step, an Incomplete will not be granted. Talking to the instructor on the phone, or in the hallway, does not constitute "in writing".

IX. STUDENT EVALUATION:

- a) Three examinations will be given at the times indicated under the "Schedule of Activities". Examinations will cover the reading assignment (theory), material presented outside the text material (supplemental material), and in-class problems. Examinations consist of multiple choice questions (part 1 of exam) and problems (part 2 of exam) to be solved. When you complete part 1, you trade it for part 2. Problems will be similar to examples that are solved during class and the practice problems. Part 1 of all exams is closed book, and for part 2 you may use "formula sheets" of their own composition on not to exceed two sheets of 8 1/2" x 11" paper (front, back, and side).
- b) Grading will be based on the assignments noted above. The final grade will be based on the following:

Exam 1	80 pts	A	90 - 100%
Exam 2	120 pts	B	80 - 89%
Exam 3	<u>50 pts</u>	C	70 - 79%
	250 pts total	D	60 - 69%
		F	< 60%

X. INSTRUCTOR: Dennis Lithgow

(501) 988 - 1391 (Office, Tuesday: LRAFB, 9:30 - 4:00)
(903) 751 - 4631 (Home - Call before 9PM)
denbeclithgow2@yahoo.com (Try to check every evening.)

XI. INSTRUCTOR AVAILABILITY: Your instructor is available to meet before, during, and after scheduled class periods or at a mutually-agreed upon time and place.

XII. SCHEDULE OF ACTIVITIES:

SESSION	DAY	SUBJECT	CHAPTER
I	Sat.	Introduction	1
		Material Analysis	3
Labor Analysis		2	
	Sun.	Accounting Analysis	4
		Least Squares & Regression	5.2
II	Sat.	Exam 1 (2 hours)	
		Operation Estimating	7
		Learning	6.4.1
		Product Estimating	8
		Cash Flow	9.2
	Sun.	Engineering Economy	Supplement & Table 10.2
III	Sat.	Exam II (2 hours)	
		Engineering Economy (cont.)	" "
	Sun.	Engineering Economy (cont.)	" "
		Exam 3 (2 hours)	

The instructor reserves the right to make deviations from the course schedule as needed. **Before taking a makeup exam, be sure you're studying the correct material.**