

COURSE SYLLABUS FORMAT
Southeast Missouri State University

Department of Industrial and Engineering Technology Course No. CM 320

Title of Course: Construction Cost Estimating Revision
New X

I. Catalog Description and Credit Hours of Course:

Preparation of bid proposals including methods of pricing materials, equipment, and labor for residential and commercial construction projects. 3 credit hours

II. Prerequisite (s): MA134, TG125, TG320, TG322, or consent of instructor

III. Purposes or Objectives of the Course:

- A. Understand the process of design, estimating, bidding, negotiation, award of contract, and construction
- B. Identify the components of the total bid package
- C. Identify cost items on a project
- D. Estimate quantities of material and labor for each item of work
- E. Apply indirect and direct costs
- F. Perform calculations utilizing mathematical tools, including computer estimating packages, to complete final bid
- G. Compile a total bid package including all cost elements

IV. Expectations of Students:

Students will be able to:

- A. Participation in class and group discussions
- B. Read assigned materials
- C. Complete and submit assignments
- D. Pass exams

V. Course Content or Outline (Indicate number of class hours per unit or section):

<u>Topic</u>	<u>Hours</u>
A. Introduction to Estimating and Contracts, Bonds, Insurance	3
B. Specifications and the Estimate	3
C. Computer Assisted Estimating	3
D. Overhead and Contingencies	3
E. Labor	3
F. Equipment and Excavation	3
G. Concrete and Masonry	3
H. Metals, Wood	3
I. Thermal and Moisture Protection	3
J. Doors and Windows/Finishes	3
K. Electrical	3
L. Plumbing	6
M. Heating and Ventilating and Air-Conditioning	6
N. Profit	3
O. Final Exam	

VI. Textbook(s) and/or Other Required Materials or Equipment:

- A. Dagostino, F. R. (1999) Estimating in Building Construction.

VII. Basis for Student Evaluation:

Residential Estimating Projects	20%
Industrial Estimating Project	20%
Commercial Estimating Project	20%
Mid Term Exam	20%
Final Exam	<u>20%</u>
Total	100%

Grading Scale:

A=	100-90%
B=	89-80%
C=	79-70%
D=	69-60%
F=	59-0%