

**Course Syllabus**

**Semester: Fall 2009**

**Course: CM 6904**

**Construction Course Title: Estimating Four MEP 3 – 2 – 4**

**Prerequisite(s): ACCT 2101**

**Classroom: H-339**

**Class Periods: Thursday 1:00 to 3:50 & Tuesday 1:00 to 1:50 PM**

**Text:** Means Cost Data (electrical, mechanical, & plumbing)

Student to purchase one copy of one of the above listed books.

Coordinate with other students and share books

By: RS Means (2009)

**Grading Policy:**

A = 90 to 100

B = 80 to 89

C = 70 to 79

D = 60 to 69

F = 0 to 59

examinations 10%,

final 10%,

site estimate 15%

electrical estimate 15%

plumbing estimate 15%

HVAC & building control estimate 15%

paper 15%

class participation 5%

Total 100%

students are expected to be to class on time and to participate

**Instructor: John Mench Ph.D., PE, LEED-AP**

**Office: Room #H331**

**Office Hours:** Wednesday, Thursday and Friday - as posted

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\*\*Required for Capstone

<b>Class</b>	<b>Date</b>	<b>Subject of Lecture/Lab</b>	<b>Assignments Due</b>	<b>Reference(s)</b>
1	21 Aug 08	Introduction – The Building Drawings and ProEst		Drawings & VISTA
2	21 Aug 08	Using Means MEP Estimating books		Means Cost Data Books
3	28 Aug 08	Conceptual Estimating - MEP		VISTA & Software
4	28 Aug 08	Site MEP estimating	Site Plan	VISTA
5	4 Sept 08	Other Site Systems		VISTA
6	4 Sept 08	Assemblies Estimating		VISTA
7**	11 Sept 08	Building Electrical Estimating	Site Estimate	VISTA & Plans
8	11 Sept 08	Building Electrical Estimating		Means Electrical Cost Data
9	18 Sept 08	Building Electrical Estimating		VISTA
10	18 Sept 08	Review Q&A		
11	25 Sept 08	Examination One		
12**	25 Sept 08	Spreadsheet Estimating	Electrical Estimate	Excel & VISTA
13	2 Oct 08	Understanding the HVAC System	Review Plans	CNST 3180 book & Plans
14	2 Oct 08	Understand the Plumbing System	Review Plans	CNST 3180 book & Plans
15**	9 Oct 08	Building Plumbing Estimating		Means Plumbing Cost Data
16	9 Oct 08	Building Plumbing Estimating		VISTA & Plans
17	16 Oct 08	Plumbing Installation Estimating		VISTA
18	16 Oct 08	Building Fire Protection Estimating		VISTA
19	23 Oct 08	Indirect Cost Estimating		VISTA
20	23 Oct 08	Examination Two		
21	30 Oct 08	Building Control System Estimating	Plumbing Estimate	VISTA
22	30 Oct 08	Control Installation Estimating		VISTA & Plans
23**	6 Nov 08	Building Ventilation Estimating		Means Mechanical Cost Data (MMCD)
24	6 Nov 08	Ventilation Installation Estimating		VISTA
25**	13 Nov 08	Building Cooling Estimating		MMCD
26	13 Nov 08	Cooling Installation Estimating		VISTA
27	20 Nov 08	Building Heating Estimating		VISTA
28	20 Nov 08	Heating Installation Estimating	HVAC Estimate	VISTA
29	4 Dec 08	Building Mechanical Other		VISTA
30	4 Dec 08	Review	Complete Estimate	

NOTE: This syllabus is intended to represent the general format of the class. The instructor may make changes if it is determined that such changes will better suit the needs of the students.

**Catalog Description:** A continuation of the study of the estimating process emphasizing the specialty contractor's portion of the construction project. Topics covered will include the estimating procedure, soft costs, using standard industry references and software, and bidding strategy. A current set of mechanical, plumbing, and electrical plans will be estimated.

**Course Structure/Approach:** This class is part lecture and part lab. and encourages discussion (participation).

Two test and a final will be offered.

**Course Outcomes:** By the end of the course the student should be able to:

1. complete a building MEP site estimate
2. complete a building electrical estimate
3. complete a building plumbing estimate
4. complete a building HVAC estimate

**Specific Requirements for the Course:**

Complete an electrical, mechanical, & plumbing estimate for a specific building.

The estimates are to be completed using two different software packages (Excel & ProEst).

Estimating Paper:

Minimum of 10 pages of core text, word processed (specifications: 12 point Times New Roman font, single spaced, margins L = 1.5" , R = 1.0", top and bottom 1.0". The paper must contain at least fifteen additional pages of estimating detail and summary.

Transmittal Memo

Title Page

Text

Estimate

References

**Additional Notes:**

**NOTE 1**

*The course description and course schedule handouts provide the general framework for the course. However, the instructor reserves the right to make any modifications or changes to the course, depending on the class progress, or on any special circumstance that may arise during the semester.*

**NOTE 2**

*There will be no curve for the final grade, only straight averages. The minimum cutoff for an A is 89.5% and above; for a B is 79.5% and above; for a C is 69.5% and above; and for a D is 59.5% and above. Anything below 59.5% is considered an F. The instructor reserves the right to lower these cutoff values depending on specific circumstances surrounding the overall performance of the class.*

**NOTE 3**

*Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the counselor working with disabilities at (678) 915-7226 as soon as possible to better ensure that such accommodations are implemented in a timely fashion.*

**NOTE 4**

*It is assumed that by this time in the student's matriculation, he/she is well-versed with what constitutes plagiarism. Proper citation of references is required for this and all your coursework in the CNST program. Failure to comply with this requirement may result in disciplinary action.*