

Document Number:

Set Document Number

Departmental Course Outline Form

Abbreviated Title (25 chars max): Construction Estimating
Course Title: Construction Estimating

Dept Abbr(s): CMSV

Course Number: 2885
Lecture Hours: 4
Lab Hours:
Total (min-max) Credits: 4 -
Registration Tally:
Lab Tally:

Catalog Description:

This course explores the basic techniques and guidelines of estimating. The student will develop skills to prepare cost estimates considering the important aspects of material takeoffs, labor, equipment, and time. Practical, step-by-step cost estimating procedures will be applied to an actual building project.

Prerequisites:

Topics: Topics covered and time allotments.

1. The Estimating Process & Preliminary Procedures	5%
2. Measuring Quantities	30%
3. Pricing	30%
4. Closing the Bid	5%
5. Budget & Elemental Estimating	10%
6. Value Analysis	10%
7. Life-Cycle Costing	10%

If Qualifying Request for MN Transfer Curriculum, check here
and select 1 or 2 Goals and their Competencies:

1st Goal: Select a goal
Competencies:

2nd Goal: Select a goal
Competencies:

Document Number:

<p align="center">OUTCOMES:</p> <p>(Include thinking skills/thinking abilities objective(s). A minimum of <i>four</i> measurable course outcomes required.) Refer to Bloom's Taxonomy for appropriate verbs.</p>	<p align="center">OUTCOME MEASURES:</p> <p>(Indicate any activity that demonstrates student competence and ways in which the faculty member will ascertain the student learning outcomes.)</p>										
<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. Generate a consistent system of actions in preparing construction project cost estimates. 2. Formulate systematic and sequential plans, monitor plans, and evaluate projects to assure that quality control goals are achieved. 3. Deduce essential data that is required to prepare cost estimates from construction drawings. 4. Prepare, develop, and refine individual project estimates in classroom exercises upon an individual and team bases. 5. Evaluate and use computer technology in estimating. 6. Apply estimating techniques to an actual construction management project. 7. Review, analyze, and interpret construction documents, product, and technical information associated with architectural, structural electrical, fire, HVAC, and plumbing systems. 	<p>The department has agreed that these measures must be used:</p> <p>The instructor may also use any or all of the following measures:</p> <table border="0"> <tr> <td>1. Quizzes</td> <td align="right">30%</td> </tr> <tr> <td>2. Papers</td> <td align="right">20%</td> </tr> <tr> <td>3. Classroom participation/discussion</td> <td align="right">10%</td> </tr> <tr> <td>4. Labs/field-trips</td> <td align="right">20%</td> </tr> <tr> <td>5. Final test</td> <td align="right">20%</td> </tr> </table>	1. Quizzes	30%	2. Papers	20%	3. Classroom participation/discussion	10%	4. Labs/field-trips	20%	5. Final test	20%
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2. Papers	20%										
3. Classroom participation/discussion	10%										
4. Labs/field-trips	20%										
5. Final test	20%										

Which of the college-wide learning outcomes does this course investigate?

- Communication: Students will create shared meaning appropriate to a variety of audiences by writing and speaker.
- Critical Thinking: Students will apply creative, rational, and value-sensitive modes of thought to information and experience.
- Civic Engagement: Students will identify and address issues of public concern through individual and collective actions beyond the classroom.
- None of the Outcomes

If Special Course Fee, check here

Semesters offered (check appropriate semester(s)):

Fall:	Every Fall
Spring:	Not Offered in Spring
Summer:	Not Offered in Summer

Evaluate/Grading System (check):

A – F:	<input checked="" type="checkbox"/>	P / F:	<input type="checkbox"/>	Both:	<input type="checkbox"/>
A-NC Dev. Only:	<input type="checkbox"/>				

All changes are effective the next Fall semester unless noted _____

Check all that have changed:

New Course:	<input checked="" type="checkbox"/>
Deleted Course:	<input type="checkbox"/>
Course Title:	<input type="checkbox"/>
Number:	<input type="checkbox"/>

Document Number:

- Hours:
- Credits:
- Tally:
- Description:
- Prereq:
- MTC Goal:
- Outcomes:
- Measures:
- College Wide Goals:
- Semester Offered:
- Grading:

Submitted by:

Name(s): Matt Simoneau

CURRICULUM COMMITTEE ACTION:

Academic Council Chair

Date Approved

Primary CIP Code: _____