

Construction Estimating

CMGT - 2640 001

Course Description

This course covers the processes and methods used to develop a quantity takeoff (list of required materials) for commercial construction projects. Emphasis is placed on using spreadsheets to prepare the quantity takeoff.

Pre-Requisite(s): CMGT 1410 & CMGT 1450.

Semester(s): Fall & Spring

Course Student Learning Outcomes

- Practice the art of estimating, the estimating process, and apply the basic operation of Microsoft Excel Software.
- Describe the estimating and bidding process and illustrate the steps needed to complete an estimate.
- Create estimates that illustrate the true cost of residential and commercial projects by preparing cost breakdowns.
- Demonstrate the correct procedures to estimate the materials and labor required for the completion of project estimates, using industry standard methods.

College Wide Student Learning Outcomes

- To apply the lessons learned in CMGT 1450 and to apply them to quantity take-off.

- Each Student will become familiar with estimating concepts and how to figure quantities of various construction materials.
- Obtain a general understanding of different construction related trades.

Course Prerequisites

CMGT 1450- Construction Print Reading & Layout

Engagement Plan

The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.

I will respond to email within 24 hours

I will offer feedback on major assignments within 7 days.

Keys for Success (how to succeed in the course)

The keys to success is attendance. Though not required, attendance is crucial to keep up with the course content. A lot of content will not come from the course text.

Required Text or Materials

Title: Construction Estimating Using Excel

ISBN: 978-0-13-440550-6

Authors: Steven J. Peterson

Publisher: Pearson

Publication Date: 2018

Edition: 3rd

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Additional Materials

Helpful, but not required:

- scientific calculator
- Bluebeam Revu software
- Microsoft Excel
- Thumb drive

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Bluebeam for mac	Discussion	0
	Bluebeam for mac	Discussion	0
	Extra Credit Points	Assignment	0
	Introduce Yourself	Discussion	0
	Tuesday class	Discussion	0
	Tuesday class	Discussion	0
8/5/22	Participation/Attendance	Assignment	60
9/2/25	Assignment #1- Math Review	Quiz	10
9/16/25	Week 2 Problems-Take-off Fundamentals	Assignment	18
9/18/25	Week 3 Checkpoint-Concrete Quick-Tips	Assignment	10
9/23/25	Week 3 Problems-Concrete	Assignment	12

Due Date	Assignment Name	Assignment Type	Points
9/30/25	Week 4 Checkpoint-Masonry Quick-Tips	Assignment	10
10/2/25	Week 4 Problems-Masonry	Assignment	20
10/7/25	Week 5 Checkpoint-Metals Quick-Tips	Assignment	10
10/14/25	Week 5 Problems: Metals	Assignment	20
10/28/25	Week 8 Checkpoint-Wood Floors & Walls Quick-Tips	Assignment	10
10/28/25	Week 8 Problems: Wood Floors and Walls	Assignment	20
11/6/25	Week Checkpoint-Thermal & Moisture Protection Quick-tips	Assignment	10
11/11/25	Week 10 Problems-Thermal & Moisture Protection	Assignment	11
11/18/25	Week 12 Checkpoint-Openings & Finishes Quick-Tips	Assignment	10
11/20/25	Week 9 Checkpoint-Roofing Quick-tips	Assignment	10
11/25/25	Week 13 Earthwork Quick-Tips	Assignment	10
11/25/25	Week 13 Problems-Openings & Finishes	Assignment	20

Due Date	Assignment Name	Assignment Type	Points
11/25/25	Week 15 Exterior Improvements Quick-Tips	Assignment	10
12/4/25	Project #1	Assignment	25
12/9/25	Project #2- Building Envelope Take-off	Assignment	25
12/16/25	Garage Bid Due	Assignment	75
12/19/25	Participation/Attendance	Assignment	60

Brief Description of Assignments/Exams

Assignments will come from the book or from other resources.

Grading Scale

Letter Grade							
	100%	to	94% A	77%	to	74%	C
	94%	to	90% A-	74%	to	70%	C-
	90%	to	87% B+	70%	to	67%	D+
	87%	to	84% B+	67%	to	64%	D
	84%	to	80% B-	64%	to	60%	D-
	80%	to	77% C+	60%	to	0%	E

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)