

Professional Certificate in Construction Estimating (Online)

Schedule and Course Descriptions

The **Professional Certificate in Construction Estimating** requires the successful completion of five courses within two years. Customize your certificate by choosing any five of the following six courses that best fit your needs to build a basic foundation in construction estimating: *Introduction to Construction Estimating*; *Essential Construction Math*; *Construction Blueprint Reading*; *Estimating and Bidding I*; *Estimating and Bidding II*; and *Construction Materials and Processes*.

Textbooks: Textbooks are not included in course fees and will cost approximately \$100-\$150 per course. Textbook information is listed in the course descriptions below. Books are available for purchase at the SDSU Bookstore (619.594.7535) and can be conveniently shipped to your home.

5 easy steps to order your textbooks:

- 1) From the SDSU Bookstore website [Ship-to-Home web page](#), accept the terms and conditions;
- 2) Select **Extended Studies – [current term]**
- 3) Select the department: **Engineering**
- 4) Select the course number
- 5) Select (any of) the section(s) listed

This will show you the textbook for the class and you can proceed with your purchase.

Instructors: All instructors are subject matter experts in the course field.

Certificate Courses: Current dates are listed below. Note: *All course offerings are subject to change.*

Professional Certificate in Construction Estimating (Complete 5 of 6 courses)					
Course Name	Course #	Spring I 2017 LD: 1/23	Spring II 2017 LD: 4/10	Summer 2017 LD: 7/3	Fall 2017 LD: 9/18
Introduction to Construction Estimating	ENGR 34	1/16 - 3/19	4/3 - 6/11	6/26 - 9/3	9/11 - 11/19
Essential Construction Math	ENGR 35	1/16 - 3/19	4/3 - 6/11	6/26 - 9/3	9/11 - 11/19
Construction Blueprint Reading	ENGR 33	1/16 - 3/19	4/3 - 6/11	6/26 - 9/3	9/11 - 11/19
Estimating & Bidding I	ENGR 21	1/16 - 3/19	4/3 - 6/11	6/26 - 9/3	9/11 - 11/19
Estimating & Bidding II	ENGR 22	1/16 - 3/19	4/3 - 6/11	6/26 - 9/3	9/11 - 11/19
Construction Materials & Processes	ENGR 18	1/16 - 3/19	4/3 - 6/11	6/26 - 9/3	9/11 - 11/19

LD: Last day to register

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Introduction to Construction Estimating: ENGR 0034

After completing this course, students will understand the different types of estimates and how to organize an estimating document. Levels of estimates, quantity take-off techniques, materials pricing methods, and labor productivity rates will be addressed. Students will learn how to determine profit and overhead mark-up and how to determine construction costs.

Textbook required: Construction Estimating & Bidding: Theory/Principles/Process, Associated General Contractors (2005). ISBN: N/A
(Can be ordered online at [AGC website](#) if not purchased through SDSU bookstore.)

Essential Construction Math: ENGR 0035

This class is intended to develop mathematical skills that can be applied to the construction trade through practice and application. This course is an introduction to other courses in construction. While this class is not a prerequisite for any other classes, it does provide a foundation for them.

Textbook required: Mathematics for Carpentry & Construction Trades, 3rd Edition, Alfred Webster & Kathryn Bright (Prentice Hall, 2011). ISBN: 978-0135114001

Construction Blueprint Reading: ENGR 0033

This course is designed to provide you with that foundational knowledge and enough practice at reading blueprints to get you started. Mastery of blueprint reading will come with practice and with using blueprints on the job on a regular basis.

Textbook required: Print Reading for Construction with Blueprints, 6th edition, Walter Brown & Daniel Dorfmueller (Goodheart-Willcox, 2012). ISBN: 978-1605258027
** Be sure to purchase edition that **includes blueprints**.*
Electronic version available only from publisher.

Estimating and Bidding I: ENGR 0021

Students will learn estimating problem-solving in general conditions, civil work, concrete, and masonry (excavation, backfill, grading, paving, landscaping, etc.). Hands-on estimating with quantity take-off, pricing, and bidding is stressed. Uniform cost index categories one-four will be covered.

Textbook Required: Estimating in Building Construction, 8th edition, Steven Peterson & Frank Dagostino (Prentice Hall, 2014). ISBN: 978-0131199521

Estimating and Bidding II: ENGR 0022

This course features hands-on estimating and quantity take-off activities associated with metals, wood, doors and windows, finishes, electrical, and mechanical estimating.

Textbook Required: Estimating in Building Construction, 8th edition, Steven Peterson & Frank Dagostino (Prentice Hall, 2014). ISBN: 978-0131199521

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Construction Materials and Processes: ENGR 0018

Examines the materials used to construct a variety of structures, highways, utilities, and residential buildings. Includes terminology; interpretation of plans; and specifications to assure that correct materials are ordered, applied, and utilized. Methods of identifying materials delivered to the job site, methods of handling, quality control procedures for testing, and inspection of private and government work will be emphasized. Special emphasis will be given to the relationship of each material to the Uniform Building Code.

Textbook required: Building Construction Illustrated, 5th edition, Francis D. K. Ching (Wiley, 2014).
ISBN: 978-1118458341

Scores

To pass each course you must score 70% or higher.

Points	Score
100 - 90%	Excellent
89 - 80%	Above Average
79 - 70 %	Average
69 - 60 %	Marginal
Below 59%	Unsatisfactory
Incomplete	Did not complete

Certificate of Completion: At the completion of all required courses, you are eligible to receive a Certificate of Completion with the program title, your name, and the date of completion which can be framed and/or copied to include with your résumé when applying for jobs. Request your certificate by filling out the online request form at neverstoplearning.net/certificaterequest.