



## Basic Course Information

<b>Semester:</b>	Spring 2026	<b>Instructor Name:</b>	Luis Andrade
<b>Course Title &amp; #:</b>	BLDC 180	<b>Email:</b>	luis.andrade@imperial.edu
<b>CRN #:</b>	20443	<b>Webpage (optional):</b>	
<b>Classroom:</b>	3117	<b>Office #:</b>	
<b>Class Dates:</b>	02/10/25 to 06/06/25	<b>Office Hours:</b>	Per Appointment
<b>Class Days:</b>	Tuesday and Thursday	<b>Office Phone #:</b>	
<b>Class Times:</b>	3:15 PM to 4:20 PM; 4:30 PM to 5:55 PM	<b>Emergency Contact:</b>	DEPARTMENT OFFICE SECRETARY (760)355-6217
<b>Units:</b>	3	<b>Class Format:</b>	Face to Face.

## Course Description

*This course introduces the principles of construction planning and cost estimating, focusing on material quantity determination, production rates, and cost analysis. Students will develop an understanding of the interrelationship between project planning, estimating, and cost accounting within the construction process.*

## Course Prerequisite(s) and/or Corequisite(s)

**BLDC 110. Be able to read building plans. Geometry, Algebra and basic math.**

## Student Learning Outcomes

*Upon successful completion of this course, students will be able to:*

- 1. Develop and evaluate construction planning documents, demonstrating an understanding of planning preparation processes and project sequencing.**
- 2. Prepare accurate construction cost estimates, applying appropriate estimating methods and analyzing project requirements.**
- 3. Perform detailed material quantity takeoffs, calculating production quantities and material costs based on construction drawings and specifications.**
- 4. Analyze and apply cost accounting principles in construction projects, interpreting cost data to support budgeting, project control, and financial decision-making.**



## Course Objectives

*Upon successful completion of this course, students will be able to:*

- 1. Explain and apply construction planning procedures, including project sequencing, scheduling fundamentals, and coordination of project activities.*
- 2. Prepare and analyze construction cost estimates using conceptual, square-foot, assembly, and detailed estimating methods.*
- 3. Perform material quantity takeoffs from construction drawings and specifications to determine accurate production quantities and material requirements.*
- 4. Apply construction cost accounting principles to monitor project costs, evaluate financial performance, and support project control decisions.*

## Textbooks & Other Resources or Links

*Managing The Construction Process, Frederick E. Gould/ Nancy Joyce. 4TH Edition*

<https://www.pearson.com/en-us/subject-catalog/p/managing-the-construction-process/P200000001130/9780138135966>

## Course Requirements and Instructional Methods

*COURSE ACTIVITIES INCLUDE, LABORATORY ASSIGNMENTS, QUIZZES, CHAPTER REVIEWS, EXAMS, AND A SEMESTER LONG ESTIMATING AND PLANNING PROJECT.*

## Course Grading Based on Course Objectives

*A= 90%-100% Excellent*

*B= 80%-89% Good*

*C= 70%-79% Satisfactory*

*D= 60%- 69% Pass, less than satisfactory*

*F= 59%&Below Failing*

*The course grade will be determined by various factors such as class participation, classroom assignments, chapter reviews & estimating project, midterm & final exams. The grading range is as follows:*

*Class Attendance and Participation 10% 100 Points*

*Quizzes and Assignments 15% 150 Points*

*Exams 25% 250 points*

*Final Project 50% 500 points*

## Course Policies

### ***Attendance and Late Work***

***Regular attendance is expected. Absences and tardiness may negatively affect your performance and grade. Students who fail to attend the first class meeting (or complete the first required online activity) may be dropped. Students with excessive unexcused absences may also be dropped in accordance with college policy.***

***All assignments are due on the dates listed in the course calendar. Late work will receive a 25% deduction unless accompanied by official documentation (e.g., medical excuse). Assignments may be submitted early. Students are responsible for officially withdrawing from the course if necessary.***

***Absences for officially approved college activities will be considered excused.***

### ***Classroom Conduct***

***Cell phones and electronic devices must be turned off and put away during class unless otherwise directed. Food and drinks are not permitted, except water in sealed containers. Disruptive behavior may result in removal from class and referral to the Campus Disciplinary Officer. Only enrolled students may attend class.***

### ***Academic Integrity***

***Plagiarism and cheating are strictly prohibited. Students found engaging in academic dishonesty will receive a zero on the assignment or exam and may be subject to further disciplinary action, including a failing grade for the course. Refer to the General Catalog for complete academic misconduct policies.***

### ***Artificial Intelligence***

***IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.***

## Other Course Information

***Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at:***



IMPERIAL VALLEY COLLEGE

[http://www.imperial.edu/index.php?option=com\\_docman&task=doc\\_download&qid=4516&Itemid=762](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&qid=4516&Itemid=762)

## Financial Aid

***Your Grades Matter! In order to continue to receive financial aid, you must meet the Satisfactory Academic Progress (SAP) requirement. Making SAP means that you are maintaining a 2.0 GPA, you have successfully completed 67% of your coursework, and you will graduate on time. If you do not maintain SAP, you may lose your financial aid. If you have questions, please contact financial aid at [finaid@imperial.edu](mailto:finaid@imperial.edu).***

## Accessibility Statement.

***Imperial Valley College is committed to providing an accessible learning experience for all students, regardless of course modality. Every effort has been made to ensure that this course complies with all state and federal accessibility regulations, including Section 508 of the Rehabilitation Act, the Americans with Disabilities Act (ADA), and Title 5 of the California Code of Regulations. However, if you encounter any content that is not accessible, please contact your instructor or the area dean for assistance. If you have specific accommodations through DSPS, contact them for additional assistance.***

***We are here to support you and ensure that you have equal access to all course materials.***

## IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

## Anticipated Class Schedule/Calendar

- Week 1 Industry and the project***
- Week 2 The project management process***
- Week 3 Construction contracts and delivery methods***
- Week 4 Estimating Fundamentals***
- Week 5 Conceptual and Square Foot Estimating***
- Week 6 Assemblies Estimating***
- Week 7 Detailed Estimating***
- Week 8 Spring Recess (campus closed) NO CLASSES***
- Week 9 Scheduling fundamentals***
- Week 10 Network construction***
- Week 11 Activity duration and network calculations***
- Week 12 Fundamentals and project control***

***Week 13 Cost, schedule, and resource control 5***

***Week 14 Final Project***

***Week 15 Final Project Presentation***

***Week 16 Final Project Presentation***

***Holidays:***

***February 16 th Presidents Day No Class***

***April 6th to the 10th Spring Break No Class***

***May 25th Memorial Day No Class***

**\*\*\*Subject to change without prior notice\*\*\***