

### Basic Course Information

<b>Semester:</b>	Fall 2024	<b>Instructor Name:</b>	Jose Velasquez
<b>Course Title &amp; #:</b>	Concrete Formwork, Layout and Settings BLDC 145	<b>Email:</b>	jose.velasquez@imperial.edu
<b>CRN #:</b>	10405	<b>Webpage (optional):</b>	www.imperial.edu
<b>Classroom:</b>	3117	<b>Office #:</b>	3118
<b>Class Dates:</b>	August 12 to December 7	<b>Office Hours:</b>	M-TH 9:00am -10:00am
<b>Class Days:</b>	Tuesday & Thursday	<b>Office Phone #:</b>	760-355-5758
<b>Class Times:</b>	10:15am-11:20am 11:20am-12:45pm	<b>Emergency Contact:</b>	760-355-6217
<b>Units:</b>	3.0	<b>Class Format:</b>	Face to Face

### Course Description

This course will introduce students to techniques, practices, and procedure in concrete formwork, layout, and settings, which will lead to employment in the cement mason occupations within the Building Construction Trades Industry.

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

**BLDC110 Recommended**

Student Learning Outcomes <https://imperial.curricunet.com/Search/>

#### Critical Thinking Skills

1. Students will be able to identify and describe the importance of the ingredients of concrete and the effect of water on concrete.
2. In addition, students will be able to compare and describe the tensile and compressive strength of concrete.



## Course Objectives

Upon successful completion of this course, the students will:

1. Demonstrate the ability to understand and recognize concrete
2. Understand various techniques and practices of pouring and finishing concrete.
3. Demonstrate the ability to perform layouts and install forms
4. Understand and be aware of cement mason occupations within the community

## Textbooks & Other Resources or Links

*Main textbook*

**Concrete Construction**

**Ken Nolan, Craftsman Book Co. ISBN-13: 978-1572182370**

*Supplemental textbook*

**Wagner, W.H. and Smith, H. B. (2020). *Modern Carpentry* (11th/e). Tinley Park, Illinois Goodhearth-Willcox Company, Inc. ISBN-13: 978-1645646600**

## Course Requirements and Instructional Methods

**Course Format will be Face to Face for Lectures and Labs.**

**Attendance, Late Assignments:**

**Absences and tardiness provide an opportunity to miss valuable instruction presented by the instructor, guest speakers, and site administrators. Tardiness will contribute to lower scores on assignments and subsequently a lower course grade. All assignments are due on the specified completion dates and all students have the same and equal time to complete all assignments as per the course calendar. Considerations will be given to those late assignments accompanied by a written medical statement from a physician. 25% of possible points will be penalized for late work. Any assignment can be turned in prior to the due date!**

## Course Grading Based on Course Objectives

Course Grade will be based on a 200point scale

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 & drawing project, midterm & final exams. The grading range is as follows:

Lab practices	= 300points (15labs@20pts.eac)
Individual Project	= 100points
Midterm	= 50points
Final Exam	= 50points
Total Points	= 500points

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## Course Policies

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the

student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See [General Catalog](#) for details.

- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences. 3 absences from lecture or lab will cause the student to be dropped from the course.
- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the [General Catalog](#).
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.
- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.

Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- **Plagiarism** is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the [General Catalog](#) for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

#### Other Course Information

Students are expected to have their cameras on while on instruction through ZOOM.

Students without their cameras on will be counted as not present.

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.



## 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.

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **[Student Health Center](#)**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC **[Student Health Center](#)** at 760-355-6128 in Room 1536 for more information.
- **[Mental Health Counseling Services](#)**. Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC **[Mental Health Counseling Services](#)** at 760-355-6196 in Room 2109 for more information

## Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Course Introduction/Basic Safety	8/13
Week 2	Concrete materials	8/20
Week 3	Reinforcing concrete	8/27
Week 4	Estimating for concrete & materials	9/3
Week 5	Special types of concrete	9/10
Week 6	Curing Methods and materials	9/17
Week 7	Footings/ foundations/ <b>MIDTERM</b>	9/24
Week 8	Establishing building lines	10/1
Week 9	Types of slabs	10/8
Week 10	Form Safety	10/15
Week 11	Types of Formwork	10/22
Week 12	Shoring	10/29
Week 13	Concrete finishing	11/5
Week 14	Decorative concrete	11/12
Week 15	Lab Project	11/19



<b>Week 16</b>	<b>Thanksgiving Break</b>	<b>11/25-11/29</b>
<b>Week 17</b>	<b>Final Exam</b>	<b>12/3</b>

**Holidays**

- Labor Day** Sept. 2
- Veterans Day** Nov, 11
- Thanksgiving** Nov, 27-30

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