

### Basic Course Information

Semester	<b>Fall 16</b>	Instructor Name	<b>Humberto Montiel</b>
Course Title & #	<b>BLDC 165</b>	Email	<b>humberto.montiel@imperial.edu</b>
CRN #	<b>10841</b>	Webpage (optional)	
Room	<b>3117</b>	Office	<b>3117</b>
Class Dates	<b>8/15-12/9</b>	Office Hours	
Class Days	<b>S Lecture S Laboratory</b>	Office Phone #	<b>(760) 355-5758</b>
Class Times	<b>S 8:00 -10:05 am S 10:15-4:35pm</b>	Office contact if student will be out or emergency	<b>(619) 933-3108</b>
Units	<b>4.0</b>		

### Course Description

This course will continue to prepare the student in the occupational field of cement mason by including learning activities in cement manufacturing such as Portland cement types, aggregates, admixtures, reinforcement, material handling, placing, compacting, finishing, hand tooling, mechanical tools, concrete forming techniques, and decorative concrete.

### Student Learning Outcomes

1. Understand and explain the process of Hydration. (critical thinking skills)
2. Demonstrate positive work ethics and demonstrate ability to work well with others and perform group task in a timely manner. (personal responsibility)
3. Differentiate between the five types of Portland cement. (critical thinking skills)
4. Accurately measure and be able to estimate concrete quantities using cubic yards. (critical thinking skills)

### Course Objectives

Upon successful completion of this course, the students will:

- A. Explain the manufacturing process of cement.
- B. List the five types of Portland cement and explain their differences
- C. Demonstrate a working knowledge of aggregate types and sizes.
- D. Describe the types of reinforcement for concrete.
- E. Discuss the mixing, and placing of concrete.

- F. Explain the process and stages of concrete finishing and detailing.
- G. List the essential tools of cement mason.
- H. Demonstrate safe work practices.

#### **Textbooks & Other Resources or Links**

**Wagner, W.H. and Smith, H. B. (2008). *Modern Carpentry* (11th/e). Tinley Park, Illinois Goodhearth-Willcox Company, Inc. ISBN: 1-59070-648-X**

#### **Course Requirements and Instructional Methods Required Information—discretionary language**

**This section is where faculty would list detailed information related to types of class activities, assignments, tests, homework, etc.**

Visit a building supply center and obtain descriptive literature about floor and roof decking that can be used in post-and-beam construction. Include both solid and laminated planks and composition panels. Be sure to obtain price. Thoroughly study these materials for qualities, characteristics, and installation procedures.

Reading and Writing:

Write a 2000-word report that will be shared and discussed in class.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

#### **Course Grading Based on Course Objectives**

The course grade will be determined by various factors such as class participation, classroom assignments, chapter reviews and drawing project, mid-term, and final exams. The grading range is as follows:

A = 90% - 100% Excellent

B = 80% - 89% Good

C = 70% - 79% Satisfactory

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

F = 59% & Below; Failing.

#### 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!

#### **Attendance Required language**

- 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.

#### **Classroom Etiquette Required Information --Discretionary language**

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor. **Consider:** specifics for your class/program
- 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.
- 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.

#### Academic Honesty Required Language

- 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 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 School 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.

#### Additional Help – Discretionary Section and Language

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

#### Disabled Student Programs and Services (DSPS)

**Required Language:** 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, if you feel you need to be evaluated for educational accommodations.

### Student Counseling and Health Services

**Required Language:** Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

### Student Rights and Responsibilities

**Required Language:** 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

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

### Information Literacy

**Required Language:** Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-andprograms/divisions/arts-and-letters/library-department/info-lit-tutorials/>

### Anticipated Class Schedule / Calendar

**Required Information –Discretionary Language and Formatting:** The instructor will provide a tentative, provisional overview of the readings, assignments, tests, or other activities for the duration of the course. The faculty may find a table format useful for this purpose.

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Course Introduction/Basic Safety	
Week 2	Concrete materials	
Week 3	Reinforcing concrete	
Week 4	Estimating for concrete and materials	
Week 5	Concrete estimating	
Week 6	Foundation Plans	
Week 7	Footings / Foundations	Midterm
Week 8	Special types of concrete	
Week 9	Types of footings	

Imperial Valley College Course Syllabus – Course Title and number

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<b>Week 10</b>	<b>Releases and color concrete</b>	
<b>Week 11</b>	<b>Releases and color concrete and stamped concrete</b>	
<b>Week 12</b>	<b>Detail finishing (joints &amp; edging)</b>	
<b>Week 13</b>	<b>Special types of concrete</b>	
<b>Week 14</b>	<b>Group Assignment</b>	
<b>Week 15</b>	<b>Group Assignment</b>	
<b>Week 16</b>	<b>Group Assignment</b>	<b>Final Exam</b>