

Imperial Valley College
Industrial Technology Division
BLDC 165 Concrete Materials, Methods, and Tools
Fall 2013

Instructor: Mr. Velasquez
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IVC EXT # 6758
Office: 2100BLDG.

Office Hours

Monday –Wednesday & Friday 11:00am- 12:00pm
Thursday 3:00pm- 5:00pm

By appointments only

Monday 5:00pm- 6:00pm
Tuesday 3:00pm- 6:00pm
Wednesday 1:00pm- 2:00pm
Thursday 1:00pm- 2:00pm
Friday 8:30am- 11:00am

Division Office: 10

Division Coordinator: Jose Lopez (760) 355-6361 Fax: (760) 355-6552

Units: 4

Semester: Fall 2013 August 19- December 7

Class: Saturday 7:00am- 9:05pm	Lecture	Room 1402
Saturday 9:15pm- 3:40pm	Lab	Room 1402

I. Fall 2013 Important Dates

August 19- September 4
September 2

Late Registration
Holiday-Labor Day; no classes
Deadline to Drop full –term classes without
owing fees and/ or be eligible for refund.
Deadline to select CR/NC grading option for
coursed with that option

November 11

Holiday- Veterans' Day

November 28-30

Holiday- Thanksgiving- No classes Thursday,
Friday, Saturday

December 2-7

Last week of classes including final
examinations

December 9-13

No classes (College closed December 16-31)

II. Course Description

This course will continue to prepare the student in the occupational field of
cement mason by including learning activities in cement manufacturing, portland

cement types, aggregates, admixtures, reinforcement, material handling, placing, compacting, finishing, hand tooling, and mechanical tools.

III. 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, pouring, and placing of concrete.
- F. Explain the processes and stages of concrete finishing and detailing.
- G. List the essential tools of a cement mason.
- H. Demonstrate safe work practices.

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 tasks 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 Instructional Calendar

Week 1	August 24	Introduction/Safety Laboratory
Week 2	August 31	Concrete materials Laboratory
Week3	September 7	Reinforcing concrete Laboratory
Week 4	September 14	Estimating for concrete & materials Laboratory
Week 5	September 21	Form Safety& Types of Formwork Laboratory
Week 6	September 28	Foundations Laboratory
Week 7	October5	Laboratory Flatwork
Week 8	October 12	Midterm
Week 9	October19	Laboratory Concrete Finishing

Week10	October26	Laboratory	Detail Finishing (joints & edging)
Week 11	November 2	Laboratory	Special types of concrete
Week 12	November 9	Laboratory	Types of Footings
Week13	November 16	Laboratory	Releases and Color concrete
Week 14	November 23	Laboratory	Concrete Stamping
Week 15	November30	Laboratory	Holiday Thanksgiving
Week 16	December 7	Final Exams	

Grading System:

A= 90%-100%
 B= 80%-89%
 C= 70%-79%
 D= 60%- 69%
 F= 59%& Below

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

Class Participation	25%
Laboratory	25%
Midterm	25%
Final Exam	25%

SAFETY: STUDENTS ARE EXPECTED TO WEAR THEIR OWN SAFETY GLASSES DURING LAB SESSIONS. FAILURE TO WEAR SAFETY GLASSES DURING LAB SESSIONS WILL RESULT IN DISSMISAL OF STUDENT FROM CLASS AND EACH DISSMISAL WILL BE CONSIDERED AN ABSENSE.

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!

1.Tardiness: 3 tardies = 1 absence. (I.V.C. Gen Catalog p.27) 2005-2006

2.Absences: 3 absences = automatic drop. (I.V.C.Gen. Catalog p. 27-28)2005-2006

Quote:

- Lily Tomlin

“The road to success is always under Construction”

Course Text

Modern Carpentry. Essential Skills for the Building Trades, 11th Edition. Willis H. Wagner & Howard Bud Smith. G-W Publisher

IV. Students with Disabilities

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Program & Services (DSP&S) office for assistance as soon as possible.

DSP&S

Room 2117

Health Sciences Building

(760) 355-6312

(syllabus and assignment dates subject to change)