Imperial Valley College Industrial Technology Division BLDC 185 Concrete Footings, Flatwork, and Detail Fall 2012

Instructor: Mr. Velasquez Email- jose.velasquez@imperial.edu Cell Phone (760) 623-6274 Phone 355-5758 IVC EXT #758 Office: 2100 BLDG

Office Hours

10:00am- 11:30am Monday Tuesday 10:00am- 11:30am Wednesday 4:00pm- 5:00pm Thursday 10:00am- 11:30am Friday 10:00am- 11:30am By appointments only Monday 5:00pm- 6:00pm Tuesday 3:00pm- 6:00pm Wednesday 1:00pm- 2:00pm 3:00pm- 6:00pm Thursday Friday 1:00pm- 5:00pm

Division Office: 10 Division Coordinator: Jose Lopez (760) 355-6361 Fax: (760) 355-6552 Units: 4 Semester: Fall 2012 August 20- December 7 Class: Saturday 7:00am- 2:05am Lecture Room 1402 Saturday 2:15pm – 4:20pm Laboratory Room 1402

I. Course Description

This course is the study of concrete construction to include the skills and understanding necessary for the entry-level cement mason to locate, layout, and complete the formwork for footings. Included will be elements of flatwork concrete construction and decorative non- traditional detail work.

II. Course Objectives

Upon successful completion of this course, the students will: Demonstrate safe work practices. Explain the advantages /disadvantages to the different types of forms and formwork techniques. Describe the three fundamental types of footings. Calculate concrete volume (cubic yards) to flatwork (square footage). Detail the location of joints, expansion joints, control joints, and edging. Explain the differences in finishing techniques between decorative concrete and conventional.

Student Learning Outcome (SLO)

Critical Thinking Skills

Students will identify and describe the various steps of pouring and finishing concrete.

Information Literacy

Students will be able to compare the typical concrete mix proportions in relation to the amount of water used to mix the concrete, as evidenced by research on the effects of excessive water in concrete.

III. Course instructional schedule

Week 1.	T - h - m - 4 - m	Introduction/Safety	
Week 2	v	Laboratory Concrete materials Laboratory	
Week3	Laboratory	Reinforcing concrete	
Week 4	Laboratory	Estimating for concrete & materials	
Week 5	Laboratory	Form Safety& Types of Formwork	
Week 6	Laboratory	Foundations	
Week 7	Laboratory	Midterm Flatwork	
Week 8	0	College closed for spring recess. No Classes College closed for spring recess. No Classes	
Week 9	Laboratory	Concrete Finishing	
Week10	Laboratory	Detail Finishing (joints &edging)	
Week 11	Laboratory	Special types of concrete	
Week 12	Laboratory	Types of Footings	
Week13	Laboratory	Releases and Color concrete	
Week 14	Laboratory	Concrete Stamping	
Week 15	Laboratory	Decorative concrete	

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%

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:

- <u>Lily Tomlin</u> "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)