

Imperial Valley College  
Industrial Technology Division  
BLDC 110 Construction Blueprints, Specifications, Measurements, and Codes  
Fall 2013

**Instructor:** Mr. Velasquez  
**Email-** [jose.velazquez@imperial.edu](mailto:jose.velazquez@imperial.edu)

**Phone** (760) 623-6274  
**IVC EXT #** 6758  
**Office:** 2100BLDG.

**Office Hours**

Monday 12:00pm- 2:30pm

Tuesday 9:00pm- 2:30pm

**By appointments only**

Monday 5:00pm- 6:00pm

Tuesday 4:00pm- 6:00pm

Wednesday 4:00pm- 6:00pm

Thursday 4:00pm- 6:00pm

Friday 9:00pm- 5:00pm

Division Office: 10

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

Units: 3

Semester: Fall 2013 August 19- December 7

Class: Monday 7:30pm- 8:20pm Lecture

Wednesday 7:30pm – 11:45pm Laboratory

Location: 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 is an introduction to construction blueprint reading and specifications, study of the methods of graphic representation of building materials, symbols, measurements, and interpretation of building codes.

## III. Course Objectives

Upon successful completion of this course, the students will:

1. Demonstrate knowledge and understanding in Drawings ( the language of the industry)
2. Demonstrate knowledge and understanding in reading drawings for trade information
3. Demonstrate knowledge and understanding in multifamily construction drawings.
4. Demonstrate knowledge and understanding in commercial construction drawings

## Student Learning Outcomes

1. Interpret Blueprints in order to generate material takeoffs and estimate labor costs and project profits. (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 extension and dimension lines. (critical thinking skills)

## IV. Course instructional schedule

Week 1.	August 19	Unit 1	Introduction to Print Reading
	August 21	Unit 2	Construction Math and Application
Week 2	August 26	Unit 3	Reading Measuring Tools
	August 28	Unit 4	Lines and Symbols
Week 3	September 2	Holiday	Labor Day
	September 4	Unit 5	Freehand Technical Sketching
Week 4	September 9	Unit 6	Pictorial Drawings
	September 11	Unit 7	Orthographic Drawings
Week 5	September 16	Unit 8	Reading Scales and Dimensioning Drawings
	September 18	Unit 9	Specifications
Week 6	September 23	Unit 10	Construction Materials
	September 25	Unit 11	Plot Plans
Week 7	September 30	Unit 12	Foundation Prints
	October 2	Unit	Midterm
Week 8	October 7	Unit 13	Residential Framing Prints
	October 9	Unit 14	Commercial Framing Prints
Week 9	October 14	Unit 15	Plumbing Prints
	October 16	Unit 16	HVAC Prints

<b>Week10</b>	<b>October 21</b>	<b>Unit 17</b>	<b>Electrical Prints</b>
	<b>October 23</b>	<b>Unit 18</b>	<b>Welding Prints</b>
<b>Week 11</b>	<b>October 28</b>	<b>Unit 19</b>	<b>Estimating Construction Costs</b>
	<b>October 30</b>	<b>Unit</b>	<b>Advanced Print Reading Project (A)</b>
<b>Week 12</b>	<b>November4</b>	<b>Unit</b>	<b>Advanced Print Reading Project (B)</b>
	<b>November11</b>	<b>Holiday</b>	<b>Veterans Day</b>
<b>Week13</b>	<b>November 13</b>	<b>Unit</b>	<b>Advanced Print Reading Project (C)</b>
	<b>November 18</b>	<b>Unit</b>	<b>Advanced Print Reading Project (D)</b>
<b>Week 14</b>	<b>November 20</b>	<b>Unit</b>	<b>Drawing Project</b>
	<b>November 25</b>	<b>Unit</b>	<b>Drawing Project</b>
<b>Week 15</b>	<b>November 27</b>	<b>Unit</b>	<b>Drawing Project</b>
	<b>December 2</b>	<b>Unit</b>	<b>Drawing Project</b>
<b>Week 16</b>	<b>December 4</b>	<b>Unit</b>	<b>Final Exams</b>

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

Class Participation	10 %
Chapter Reviews	15%
Drawing project	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!

Quote: It's not a question of who's going to throw the first stone; it's a question of who's going to start building with it.

- [Sloan Wilson](#)

### **Course Text**

Print Reading for Construction,(Residential and Commercial) Walter C. Brown, Daniel P. Dorfmueller .

### **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)