

El Camino Community College  
**CONSTRUCTION TECHNOLOGY 141**

Industry & Technology

Fall 2014: Tuesday & Thursday, 12:00pm - 4:55 pm.

Instructor: Maximino "Max" Pena

mpena@elcamino.edu

**DESCRIPTION:**

Construction Technology 141 is a 4-unit semester course, consisting of 5 hours of lab and 2.5 hours of lecture per week. The course covers interior finishes in residential construction.

**TEXTBOOKS:**

**Required:**

CARPENTRY, 6<sup>th</sup> ed. Leonard Koel. 2013

Fundamentals of dwelling construction 2012, IRC, ICC

**DAILY SCHEDULE:**

Section # 7359

Lecture	12:00 pm - 1:15 pm	T-TH	Const 502
Lab	1:25 pm - 4:55 pm	T-TH	Const Yard

**DRESS:**

You must be appropriately dressed for construction work. Work boots are highly recommended.

**ATTENDANCE:**

You will be expected to maintain a satisfactory attendance record according to school policy. Excessive tardiness and or absences will be sufficient grounds for dismissal from class.

**PERSONAL TOOLS:**

It is recommended that you have a hammer (size to be discussed), nail apron, carpenter's pencil(s), tape measure, Speed square, chalk line and reels, cats paw, slotted and Phillips head screwdriver, utility knife, pliers, lumber crayons, wonder bar, and a calculator (Construction Master Pro by Calculated Industries).

**SAFETY GLASSES:**

You are responsible for purchasing and using your safety glasses. **Safety glasses must be worn in the lab at all times.**

**HEAR PROTECTION:**

You are responsible for purchasing and using your hearing protection. **Hearing protection must be worn in the lab.**

**RESPIRATOR:**

You are responsible for purchasing and using a mask and or respirator. **Dust mask and or respirator must be worn in the lab when dust particulates are present.**

**SKIN PROTECTION:**

You are responsible for purchasing and using a hat and sun block (SPF 35 or higher). **You should use both hat and sun block while in the lab.**

**GRADING:**

You final grade will be based on the following criteria:

Written tests	20%	Field Tests	15%
Notebook	10%	Final exam	15%
Lab work	40%	( <b>mandatory</b> )	

**Note:** It is the responsibility of the student to drop a course(s) he / she has stopped attending.

**NOTEBOOK:**

You are required to turn in a typewritten notebook at the end of the semester. It will consist of notes taken during the semester. The format and other information will follow later.

**LAB WORK:**

Your lab grade will be based on the following:

1. Punctuality.
2. Ability and tolerance to work with others.
3. Being dressed properly for construction work.
4. **Having necessary tools and instructional materials from class daily.**
5. Willingness to do your share of the tasks required.
6. Ability to put into practice the information learned in the lecture portion of the class.

**WRITTEN TESTS:**

You will be given various types of written tests during the semester. These will include identification, multiple choice, true - false, and mathematical calculations. If a written test is missed because of an excused absence, it may be made up by making an appointment with the instructor within one week. Students are required to have Scantron form # 882-E for all written exams including the final exam. They can be bought from the L.B.C.C. Bookstore.

**GRADES FOR WRITTEN TESTS WILL BE BASED ON THE FOLLOWING:**

100% to 90% = A	89% to 80% = B	79% to 70% = C
69% to 60% = D	59% or Less = F	

**FIELD TESTS:** (Actual hands-on)

The field tests will be given during the lab portion of the class, and will be given individually or in small groups. You will test in the following areas:

1. Drywall taping / texturing	25 pts.
2. Jamb Installation	20 pts.
3. Moulding Installation	25 pts.
4. Door Installation	20 pts.
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Total	90 pts.

**FINAL EXAM:**

The final exam will be a comprehensive test based on information and knowledge learned throughout the semester. **THE FINAL EXAM IS MANDATORY.**

**INSTRUCTIONAL UNITS:****A. SAFETY**

1. Safety information
2. Safety test

**B. TOOLS AND EQUIPMENT**

1. Hand tools
2. Portable electric tools

**C. Interior Finishes**

1. Insulation
2. Drywall Installation
3. Drywall Taping / Texturing
4. Finish Work

TENTATIVE CLASS SCHEDULE:                    **Spring 2015**

1.	T	Feb. 12	Orientation/Introduction	
2.	TH	Feb. 14	Safety Exam	(C) sections 5 unit 22
3.	T	Feb. 19	Insulation	(C) sections 11 units 51 & 52
4.	TH	Feb. 21	Insulation Codes	
5.	T	Feb. 26	Drywall & related tools	(C) section 3 unit 11 & 12
6.	TH	Feb. 28	Drywall demonstration	
7.	T	Mar. 05	Estimating	
8.	TH	Mar. 07	Drywall Taping Demonstration	
9.	T	Mar. 19	Drywall Textures	
10.	TH	Mar. 20	<b>EXAM</b>	
11.	T	Mar. 26	Door Jambs & Fasteners	(C) sections 13 unit 59
12.	TH	Mar. 28	Door Jamb installation	
13.	T	Apr. 02	Door Types / Styles	
14.	TH	Apr. 04	Door Hardware demonstration	
15.	T	Apr. 09	<b>SPRING RECESS</b>	
16.	TH	Apr. 11	<b>SPRING RECESS</b>	
17.	T	Apr. 16	Door Hanging tools & Equipment	
18.	TH	Apr. 18	Door Hanging	
19.	T	Apr. 23	Door Hanging	
20.	TH	Apr. 25	Door Accessories	
21.	T	Apr. 30	<b>EXAM</b>	
22.	TH	May 02	Moulding	(C) section 13 unit 61

23.	T	May 07	Moulding Equipment & Placements
24.	TH	May 09	Casing Moulding
25.	T	May 14	Base Moulding
26.	TH	May 16	Chair Rail & Crown
27.	T	May 21	Material Vendors
28.	TH	May 23	<b>Note Book Due</b>
29.	T	May 28	Lab Clean-up
30.	TH	May 30	Lab Clean-up
31.	T	June 04	<b>FINAL EXAM</b>
32.	TH	June 06	<b>OPEN</b>

Deadline to apply for graduation 10 Oct 2015

Deadline to drop “W” 10 May 2015

Spring Recess – 06 – 12 April 2015

TENTATIVE CLASS SCHEDULE:           **Fall 2014**

- |     |    |          |                                |                               |
|-----|----|----------|--------------------------------|-------------------------------|
| 1.  | T  | Aug. 26  | Orientation/Introduction       |                               |
| 2.  | TH | Aug. 28  | Safety Exam                    | (C) sections 5 unit 22        |
| 3.  | T  | Sept. 02 | Insulation                     | (C) sections 11 units 51 & 52 |
| 4.  | TH | Sept. 04 | Insulation Codes               |                               |
| 5.  | T  | Sept. 09 | Drywall & related tools        | (C) section 3 unit 11 & 12    |
| 6.  | TH | Sept. 11 | Drywall demonstration          |                               |
| 7.  | T  | Sept. 16 | Estimating                     |                               |
| 8.  | TH | Sept. 18 | Drywall Taping Demonstration   |                               |
| 9.  | T  | Sept. 23 | Drywall Textures               |                               |
| 10. | TH | Sept. 25 | <b>EXAM</b>                    |                               |
| 11. | T  | Sept. 30 | Door Jambs & Fasteners         | (C) sections 13 unit 59       |
| 12. | TH | Oct. 02  | Door Jamb installation         |                               |
| 13. | T  | Oct. 07  | Door Types / Styles            |                               |
| 14. | TH | Oct. 09  | Door Hardware demonstration    |                               |
| 15. | T  | Oct. 14  | Door Hanging tools & Equipment |                               |
| 16. | TH | Oct. 16  | Door Hanging                   |                               |
| 17. | T  | Oct. 21  | Door Hanging                   |                               |
| 18. | TH | Oct. 23  | Door Hanging                   |                               |
| 19. | T  | Oct. 28  | Door Accessories               |                               |
| 20. | TH | Oct. 30  | <b>EXAM</b>                    |                               |
| 21. | T  | Nov. 02  | Molding                        | (C) section 13 unit 61        |

22.	TH	Nov. 04	Molding Equipment & Placements
23.	T	Nov. 11	Casing Molding
24.	TH	Nov. 13	Base Molding
25.	T	Nov. 18	Chair Rail & Crown
26.	TH	Nov. 20	Material Vendors
27.	T	Nov. 25	<b>Note Book Due</b>
28.	TH	Nov. 27	Thanks Giving Holiday
29.	T	Dec. 02	Lab Clean-up
30.	TH	Dec. 04	Lab Clean-up
31.	T	Dec. 09	<b>FINAL EXAM</b>
32.	TH	Dec. 11	<b>OPEN</b>

Deadline to apply for graduation 10 October 2014

Deadline to drop "W" 14 November 2014





Long Beach Community College

**CARPENTRY 212**

School of Trades & Industrial Technologies

Spring 2009: Monday, Tuesday, Wednesday, and Thursday, 8:15 am-1:15 pm.,

Instructor: Maximino "Max" Pena

(562) 938-3104 (w/ voice mail)

mpena@lbcc.edu

Carpentry 2:

**DESCRIPTION:**

Carpentry 1 is a 10-unit semester course, consisting of 15 hours of lab and 5 hours of lecture per week. The course covers floor systems, framing, stairs, and hardware installation in residential construction.

**TEXTBOOKS:**

**Required:**

CARPENTRY, 4<sup>th</sup> ed. Leonard Koel

Fundamentals of dwelling construction 2003 or 06 IRC, ICBO

**DAILY SCHEDULE:**

Section #

Lab                      08:15 am - 11:45 am   M-T-W-TH

Lecture                11:45 am - 1:15 pm   M-T-W-TH

**DRESS:**

You must be appropriately dressed for construction work. Work boots are highly recommended.

**ATTENDANCE:**

You will be expected to maintain a satisfactory attendance record according to school policy. Excessive tardiness and or absences will be sufficient grounds for dismissal from class.

**PERSONAL TOOLS:**

It is recommended that you have a hammer (size to be discussed), nail apron, carpenter's pencil(s), tape measure, Speed square, chalk line and reels, cats paw, slotted and Phillips head screwdriver, utility knife, red and blue chalk, framing square, stair gauges, pliers, lumber crayons, wonder bar, and a calculator.

**SAFETY GLASSES:**

You are responsible for purchasing your safety glasses. **Safety glasses must be worn in the lab at all times.**

**HEAR PROTECTION:**

You are responsible for purchasing your hearing protection. **Hearing protection must be worn in the lab.**

**GRADING:**

You final grade will be based on the following criteria:

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Notebook	10%	Final exam	15%
Lab work	40%	(mandatory)	

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**LAB WORK:**

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**WRITTEN TESTS:**

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69% to 60% = D

89% to 80% = B  
59% or Less = F

79% to 70% = C

**FIELD TESTS:** (Actual hands-on)

The field tests will be given during the lab portion of the class, and will be given individually or in small groups. You will test in the following areas:

1. Floor System Layout	25 pts.
2. Door Placement	20 pts.
3. Window Placement	20 pts.
4. Stair Layout	25 pts.
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Total	90 pts.

**FINAL EXAM:**

The final exam will be a comprehensive test based on information and knowledge learned throughout the semester. **THE FINAL EXAM IS MANDATORY.**

**INSTRUCTIONAL UNITS:**

**A. SAFETY**

1. Safety information
2. Safety test

**D. FRAMING**

1. Walls
2. Doors and windows

**B. TOOLS AND EQUIPMENT**

1. Hand tools
2. Portable electric tools

**E. Stairs**

1. Stair calculations
2. Carriage layout

**C. LAYOUT**

1. Floor plan interpretation
2. Pier placement
3. Girder Placement
4. Floor Joist Layout