

Course Outline

COURSE: CARP 208 **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2016 **Inactive Course**

SHORT TITLE: EXTERIOR FINISH

LONG TITLE: Exterior Finish

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	1	Lecture:	6	6
		Lab:	30	30
		Other:	0	0
		Total:	36	36

COURSE DESCRIPTION:

This course covers exterior design, materials, and methods of application and finishes in building construction. Students will complete the tasks required in planning and installing exterior finish and trim materials in a safe and efficient manner.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: C - Credit - Degree Non Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. The students will recognize and evaluate the difference between cornices, fascia, and soffits and install exterior trim for roof perimeters.

Measure: Class Performance, Written Exams, Multiple Choice

PLO: 3

ILO: 2, 3, 7

GE-LO:

Year assessed or anticipated year of assessment: 2012-13

2. The students will describe, evaluate, and install various types of exterior trims.

Measure: Class Performance, Quizzes, Written Exams

PLO: 3

ILO: 2, 3, 7

GE-LO:

Year assessed or anticipated year of assessment: 2012-13

PROGRAM LEARNING OUTCOMES:

1. Demonstrate journey level skills, including those skills necessary to build all concrete infrastructures that comprise the California transportation system.

2. Locate on the blueprints and in the specifications, the information needed to construct various types of structures and assemble its various components.

3. Perform horizontal layout and vertical layout of wood framed wall components. Install interior and exterior trims and moldings. Construct various types of roofs and stairs.

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Inactive Course: 11/28/2016

Out-of class assignments: For each topic, the student will read chapters and do homework assignments at the end of those chapters.

2 lec/10 lab hours

A. Exterior design

1. Material availability

2. Climate and location

3. Orientation of structure

4. Roof design

SLO: The students will identify and evaluate the common types of materials used for exterior finish and trim.

B. Materials

C. Tools

1. Hand tools

2. Power tools

3. General safety precautions for power tools

SLO: The students will describe and select the different types of material and tools for particular construction projects. The students will describe and evaluate the safety precautions for using power tools.

D. Exterior trim at the roof perimeter

1. Cornices

a. closed cornice

b. Open cornice

2. Fascia

3. Soffits

4. Fascia installation procedures

a. Gable roof

b. Hip roof

c. Butt, miter, and compound miter joints

12/5/2016

SLO: The students will recognize and evaluate the difference between cornices, fascia, and soffits and install exterior trim for roof perimeters. The students will evaluate and use materials and tools for exterior work.

Assignments: Read the chapters covered in the lecture and do the homework exercises at the end of the chapters. Answer the study guide questions on the assigned subject.

Identify the common types of materials used for exterior finish and trim. Recognize and describe the difference between cornices, fascia, and soffits.

2 lec/10 lab hours

- E. Doors
 - 1. Door styles
 - 2. Materials
 - 3. Components
 - 4. Door jambs
 - 5. Prehung door installation procedures

SLO: The students will describe and evaluate the different types of exterior doors and install a prehung exterior door.

- F. Vapor Barriers
 - 1. Building papers
 - a. Function
 - b. Types
 - c. Installation procedures
 - 2. Flashing and counterflashing
 - a. Windows
 - b. Sidings
 - 3. Caulking
 - a. Function
 - b. Types
 - c. Installation procedures
- G. Temperature control and ventilation
 - 1. Heat transfer
 - 2. Building insulation
 - 3. Condensation

SLO: The students will describe, evaluate, install building paper, insulation, flashing, and chalking.

Assignments: Read the chapters covered in the lecture and do the homework exercises at the end of the chapters. Answer the study guide questions on the assigned subject.

Describe the different types of exterior doors. Install a prehung exterior door. Select and install vapor barriers and temperature hardware.

2 lec/10 lab hours

- H. Windows
 - 1. Materials
 - a. Wood
 - b. Extruded aluminum
 - c. Vinyl
 - d. Wood clad with aluminum or vinyl
 - 2. Types
 - a. Casement
 - b. Slider
 - c. Double hung
 - d. Fixed

- e. Awing and hopper
- 3. Installation procedures

SLO: The students will describe, evaluate, and install different types of windows.

- 1. Exterior trims
 - 1. Moldings and trims
 - 2. Trim flashing
 - 3. Water tables and belt courses
 - 4. Wainscot
 - 5. Treatment at inside and outside corners
 - 6. Nails and nailing practices
 - 7. Chop saw use and safety

SLO: The students will describe, evaluate, and install various types of exterior trims.

- J. Siding
 - 1. Materials
 - a. Wood
 - b. Metal
 - c. Hardboard
 - d. Fiber-cement
 - 2. Types
 - a. Horizontal board
 - b. Vertical board
 - c. Shingles and shakes
 - d. Panel or sheet
 - 3. Installation procedures
 - a. Bevel siding
 - b. T&G siding
 - c. Hardboard siding
 - d. Plywood siding
 - e. Cedar shingles

SLO: The students will describe, evaluate, and install various types of exterior sidings.

Assignments: Read the chapters covered in the lecture and do the homework exercises at the end of the chapters. Answer the study guide questions on the assigned subject.

Describe and install different types of windows, including flashing and counterflashing.

Describe the function of building paper, insulation, flashing, and chalking.

Select and install various exterior sidings.

Select and install exterior trims and moldings.

Select and install T&G, bevel, plywood, hardboard, shingle, and plywood sidings.

2.0 Hours

METHODS OF INSTRUCTION:

- A. Lecture and discussion
- B. Visual aids
- C. Demonstrations
- D. Group hands-on exercise
- E. Individual hands-on exercise
- F. One-on-one hands-on instruction

METHODS OF EVALUATION:

12/5/2016

The types of writing assignments required:

Written homework

Reading reports

Lab reports

Essay exams

The problem-solving assignments required:

Homework problems

Field work

Lab reports

Quizzes

Exams

The types of skill demonstrations required:

Class performance

Field work

Performance exams

The types of objective examinations used in the course:

Multiple choice

True/false

Matching items

Completion

Other category:

None

The basis for assigning students grades in the course:

Writing assignments: 5% - 20%

Problem-solving demonstrations: 5% - 30%

Skill demonstrations: 20% - 80%

Objective examinations: 5% - 30%

REPRESENTATIVE TEXTBOOKS:

Required:

Leonard A. Koel, CTCNC. 6th edition, Exterior Finish. American Technical Publishers, CTCNC, 2013. Or other appropriate college level text.

Reading level of text, Grade: 10 Verified by: publisher/dvt

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Not Transferable

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

12/5/2016

Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department:
CSU Crosswalk Course Number:
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: A
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000500341
Sports/Physical Education Course: N
Taxonomy of Program: 095210