

# BI 0030 - FINISH CARPENTRY

## Catalog Description

Formerly known as CET 30

Advisory: Completion with grade of "C" or better or concurrent enrollment in BI 3

Hours: 108 (36 lecture, 72 laboratory)

Description: Fundamentals of woodworking hand tools, power hand tools and woodworking machinery to safely develop knowledge and skills leading to finish trim carpentry. Emphasis on residential construction finish carpentry standards, details, nomenclature, trims, and methods of setting interior and exterior doors, window jamb and trims, closet packs, cabinet installs, wainscoting, stair trim and railings, base and ceiling trims and finished flooring applications. (not transferable)

## Course Student Learning Outcomes

- CSLO #1: Describe installation methods of: Interior and exterior doors, window jamb and trims, closet packs, cabinet installs, wainscoting, stair trim and railings, base and ceiling trims and finished flooring applications.
- CSLO #2: Demonstrate the proper safe usage, application and maintenance of power hand tools and machinery related to cabinetry, carpentry and finish trim carpentry.
- CSLO #3: Apply proper care and maintenance of common woodworking hand and power tools, and machinery.

## Effective Term

Spring 2021

## Course Type

Credit - Degree-applicable

## Contact Hours

108

## Outside of Class Hours

54

## Total Student Learning Hours

162

## Course Objectives

Lecture Objectives:

1. Describe and demonstrate the proper safe usage, application and maintenance of power hand tools and machinery related to cabinetry, carpentry and finish trim carpentry.
2. Describe and demonstrate installation methods of: Interior and exterior doors, window jamb and trims, closet packs, cabinet installs, wainscoting, stair trim and railings, base and ceiling trims and finished flooring applications.

Laboratory Objectives:

1. Demonstrate safe handling and application of power hand tools and machinery related to cabinetry, carpentry and finish trim carpentry.

2. Machine tool maintenance of common woodworking hand and power tools, and machinery.

## General Education Information

- Approved College Associate Degree GE Applicability
- CSU GE Applicability (Recommended-requires CSU approval)
- Cal-GETC Applicability (Recommended - Requires External Approval)
- IGETC Applicability (Recommended-requires CSU/UC approval)

## Articulation Information

- Not Transferable

## Methods of Evaluation

- Problem Solving Examinations
  - Example: Students will be tested on reading and lecture material. Question Example: What is the difference between crown molding and baseboard? Points will be assigned to each question and converted to a letter grade.
- Skill Demonstrations
  - Example: Students will demonstrate proper procedures for measuring, cutting, coping and splicing crown molding. The grading is determined by a grading rubric.

## Repeatable

No

## Methods of Instruction

- Laboratory
- Lecture/Discussion
- Distance Learning

Lab:

1. Lab techniques will be presented in a "describe / show / review" methodology. Students will complete a safety test before using equipment. Instructor will work with students until they can successfully complete the test with 100% success rate. (Laboratory Objective 1)

Lecture:

1. Instructor will lecture on the installation of crown molding and baseboards. The student will be given an opportunity to clarify any questions in an instructor-guided discussion. (Lecture Objective 2)

Distance Learning

1. Students in online classes participate, individually and in groups, in discussion boards and respond to weekly assignments via the Learning Management System. The instructor will provide documented material (including videos) explaining or exploring the course content and provide individual feedback on all assignments. The instructor will lecture common causes for the dulling of wood working equipment. Students will demonstrate understanding by responding to discussion post, submitting a student led instructional video or slideshow, and/or an image of them sharpening tools with a description of the process.

## Typical Out of Class Assignments

### Reading Assignments

1. Read text unit on machine and tool operations safety and be prepared to discuss in class. 2. Read the text units on joinery and cabinet structure. Apply to course projects. 3. Read the text units on crown molding machining.

### Writing, Problem Solving or Performance

1. Pass a safety exam with a 100% related to the text reading assignment, machine tool operations demonstrations and lectures. 2. Lab Assignments: Demonstrate installation methods of interior and exterior doors, window jamb and trims, closet packs, cabinet installs, wainscoting, stair trim and railings, base and ceiling trims and finished flooring applications.

### Other (Term projects, research papers, portfolios, etc.)

### Required Materials

- Trim Carpentry
  - Author: Philip Moon
  - Publisher: Thomson/Delmar
  - Publication Date: 2007
  - Text Edition: 1st
  - Classic Textbook?: No
  - OER Link:
  - OER:
- Residential Construction Academy: Carpentry
  - Author: Floyd Vogt
  - Publisher: Cengage
  - Publication Date: 2019
  - Text Edition: 5th
  - Classic Textbook?: No
  - OER Link:
  - OER:

**Other materials and-or supplies required of students that contribute to the cost of the course.**