CNST A241: FINISH CARPENTRY

Item	Value
Curriculum Committee Approval Date	12/02/2020
Top Code	095200 - Construction Crafts Technology
Units	5 Total Units
Hours	162 Total Hours (Lecture Hours 54; Lab Hours 108)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S), • Pass/No Pass (B)

Course Description

This course covers interior and exterior building finishes, including door materials, construction, hardware and installation: interior and exterior millwork; molding, cabinetry and exterior siding. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Demonstrate the proper assembly and installation of a door jamb and interior door with hardware; and apply the interior trim mouldings.
2. Demonstrate proper application of exterior house siding and trim.
3. Demonstrate proper installation of closet shelves and hardware.
4. Demonstrate proper door lock boring and hinge mortising.

Course Objectives

- 1. Perform proper solid entry door installation.
- 2. Properly install residential door hardware.
- 3. Install plank and panel siding in accordance with the California Residential Code.
- 4. Properly install interior base moldings
- 5. Properly install interior crown moldings
- 6. Properly install closet shelves
- 7. Properly install sliding closet doors.
- 8. Relate the California Residential Code passages pertaining to doors.
- 9. Properly install a hollow core interior door
- 10. Properly install an interior pocket door.
- 11. Properly install interior wainscoting.
- 12. Properly install a shower door
- 13. Properly change out an existing door using the existing frame.
- 14. Properly enlarge an existing door opening to fit a larger door.
- 15. Properly apply finishes on interior moldings.

Lecture Content

A. Lecture/Lab Topics - Introduction 1. Course overview, requirements and objectives 2. Safety 3. Tools, tool checkout procedures and sawhorse construction B. Wall Construction 1. Frame walls for window installation 2. Frame walls for door installation 3. Code requirements C. Doors 1. Door types, materials and installation 2. Butt hinge mortising 3. Door bevel with planer 4. Door jamb preparation 5. Door installation 6. Door lock boring 7. door latch/lock installation D. Exterior Wall Finish Systems 1. Building wraps and siding, 2. Building code requirements 3. Building wraps and flashing application 4. Siding application 5. Trim application 6. Siding estimating E. Molding 1. Base, case and crown molding materials and tools 2. Mitered and coped joints 3. Molding installation 4. Interior trim estimating F. Closets and Cabinets 1. Closet configurations, dimensions, and installation types 2. Cabinet types, materials, and module dimensions

Lab Content

A. Lecture/Lab Topics - Introduction 1. Course overview, requirements and objectives 2. Safety 3. Tools, tool checkout procedures and sawhorse construction B. Wall Construction 1. Frame walls for window installation 2. Frame walls for door installation 3. Code requirements C. Doors 1. Door types, materials and installation 2. Butt hinge mortising 3. Door bevel with planer 4. Door jamb preparation 5. Door installation 6. Door lock boring 7. door latch/lock installation D. Exterior Wall Finish Systems 1. Building wraps and siding, 2. Building code requirements 3. Building wraps and flashing application 4. Siding application 5. Trim application 6. Siding estimating E. Molding 1. Base, case and crown molding materials and tools 2. Mitered and coped joints 3. Molding installation 4. Interior trim estimating F. Closets and Cabinets 1. Closet configurations, dimensions, and installation types 2. Cabinet types, materials, and module dimensions

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- Lab (04)
- DE Live Online Lab (04S)

Instructional Techniques

Instructional methodologies will include, but not necessarily be restricted to, the following: 1. Detailed multimedia/ lectures of each topic covered. 2. Student feedback during each lecture. 3. Detailed illustrative discussion of lecture handout and textbook information. 4. Building plan reading

Reading Assignments

Students have a weekly reading assignment which include studying building codes and construction procedure - approximately 3 hours per week.

Writing Assignments

Preparation of material quantities- approximately 2 hours per week.

Out-of-class Assignments

Students are assigned a weekly drafting assignment to do out of class - approximately 3 hours per week.

Demonstration of Critical Thinking

Students will be given various types of written tests for their evaluation in this course during this semester. These will include identification, multiple choice, true and false, and mathematical calculations. Project

and lab assignment grades: the instructor will assign grades to all lab assignments.

Required Writing, Problem Solving, Skills Demonstration

The course of study will develop proficiencies in the installation of various building material systems.

Eligible Disciplines

Construction technology: Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Koel, Leonard. Carpentry, 6th ed. American Technical Publishers, 2013