CVL155
ADVANCED RESIDENTIAL CARPENTRY
3 Credit Hours

Prepared by
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CAREER & TECHNICAL EDUCATION
Alan Foster, Associate Dean
CVL155 ADVANCED RESIDENTIAL CARPENTRY

I. CATALOG DESCRIPTION

Prerequisite: CVL105
Credit Hours: 3

This course accentuates safe conduct while working in close quarters with others where power and hand tools are being used to do finish work on a house that was framed in CVL105. Finish work on a house begins with the exterior with an introduction on the application of various roofing and siding, soffitt and cornices, doors and windows, and exterior casing. After mastering these skills, the class will learn how to trim the interior of doors and windows, learn how to calculate steps and how to install them, how to “run base,” and install door and window hardware. Time permitting, the class will disassemble the house at the conclusion of the course.

II. GENERAL COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

A. Demonstrate knowledge of and physically do the work of a finish carpenter as listed in the previous section.

III. COURSE OUTLINE

A. Orientation to residential carpentry
   a. personal and student introductions
   b. detailed explanation of course content and what is expected of students

B. Exterior finish of a house
   a. Identification of different roofing materials used on houses and a demonstration on their application
      (a) Students physically demonstrate their ability to use the materials used for roofing
   b. Identification of different soffitt and fascia materials used on houses and a demonstration on their application
      (a) Students will demonstrate by shop application their ability to use them
   c. Cornices and their use
      (a) Proper use and how to build them
   d. Window and door installation
      (a) Demonstration
      (b) Caulk and trim
   e. Siding
      (a) Types and brand names
      (b) Demonstration
      (c) Practical application by students
   f. Exterior specialty products
      (a) Availability
      (b) Application of shutters by students
C. Interior finish of a house
   a. Drywall
      (a) Demonstration
      (b) Practical application by students
   b. Interior base and casing
      (a) Identification of types
      (b) Demonstration of the application of both
      (c) Students will demonstrate a working knowledge of the concept
   c. Interior doors
      (a) Demonstration on their application
      (b) Practical application by students
   d. Shelves and shelving systems
      (a) Lecture
      (b) Student application of putting in shelves
   e. Wainscot
      (a) Lecture
      (b) Demonstration
      (c) Practical application by students
   f. Suspended ceiling and linoleum floor tiles
      (a) Lecture and Demonstration
      (b) Application by students
   g. Destruction of work by students, saving all doors and windows and as much trim as possible.

IV. UNIT OBJECTIVES

Upon completion of this course the student will know and understand:

A. Identification of various type of house siding used in this area and how to apply them
B. To identify and safely use interior and exterior finish tools in a productive manner
C. To learn how to correctly apply different types of roofing found on houses
D. To know and use common systems of soffitt and fascia used in residential work
E. To understand and demonstrate the correct way to install an interior and exterior door
F. To correctly identify and install types of windows used in finish residential work
G. To correctly install exterior and interior trio and casing on the windows
H. To correctly identify and install interior base and casing in a house
I. To learn to install wood and steel shelving in a closet
J. To learn to make and install wainscot in a room
K. To demonstrate the correct way to hang drywall on a ceiling and on walls
L. To learn to install suspended ceiling grid, pads, and floor tiles
M. To learn and demonstrate how to put on wainscot
N. Where to use various caulking if needed
O. How to use some specialty trim
V. METHOD OF INSTRUCTION

A. Handouts
B. Films
C. Demonstrations
D. Supervised, practical, on site work

VI. REQUIRED TEXTBOOKS

None required, but one will be available for use during class

VII. REQUIRED MATERIALS

A. Pencil
B. Safety glasses
C. 25’ – 30’ tape measure

VIII. SUPPLEMENTAL REFERENCES

None

IX. METHOD OF EVALUATION

A. Distribution of the Final Grade

There will be three written exams about safety, five over carpentry information during the course, and the ability to understand and physically perform the work will be evaluated visually by the instructor during each class. Class attendance and general conduct will also be evaluated.

B. Assignment of letter grades:

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = Below 60