

# CARPENTRY (CARP)

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## **CARP 102. Core Curriculum**

Credits: 2

Typically Offered: FALL

Core Curriculum from the National Center for Construction Education and Research (NCCER), consists of eight modules which are Basic Safety; Construction Math; Hand Tools; Power Tools; Blueprints; Basic Rigging; Communication Skills; and Employability Skills. This course is a prerequisite for all NCCER Craft Level Training, (regardless of the craft).

## **CARP 110. Blueprint Reading**

Credits: 2

Typically Offered: FALL

This course provides the basic understanding of standard residential blueprints including plot plans, foundation plans, floor plans, elevations, details of mechanical and electrical plans, and a basic understanding of residential building codes.

## **CARP 112. Introduction to the Green Environment**

Credits: 3

Typically Offered: FALL

This course introduces students to an understanding of the green mind-set. Discussions cover the impact of building on the green environment within the context of market realities.

## **CARP 115. Site Layout and Foundation Construction**

Credits: 2

Typically Offered: FALL

Students will receive training and hands-on experience in preparation of a building site and foundation construction. Instruction will include laying out building lines, establishing batter boards, concrete footings and foundations, and studying alternate foundation systems.

## **CARP 120. Principles of Framing**

Credits: 3

Typically Offered: FALL

This is a comprehensive course which concerns instruction and study on the techniques and practices required for successful employment as a framing carpenter. Areas covered will include layout of floors and walls, engineering truss systems, joist and rafter systems, and stairway construction.

## **CARP 125. Framing I**

Credits: 6

Typically Offered: FALL

This lab will increase the student's knowledge, skills, and proficiency in framing by applying the techniques learned in CARP 120. Activities will center around the actual construction of a house.

## **CARP 130. Exterior Finish**

Credits: 3

Typically Offered: FALL

This course deals with the basics of residential exterior finish. Instruction will include units on fascia and soffit construction, windows and exterior door installation, and siding and roofing.

## **CARP 135. Framing & Exterior Finish II**

Credits: 4

Typically Offered: SPRING

This course concentrates on specialty exterior and interior framing including deck systems. Students will also learn and apply advanced exterior finish products for decking, hand rail systems, and specialty wall finishes.

## **CARP 140. Principles of Interior Finish**

Credits: 3

Typically Offered: SPRING

This course provides an understanding of materials and processes used in interior finishing. Instruction will include units in drywall, interior doors, interior trim, floor underlayment and applying finishes.

## **CARP 145. Interior Finish**

Credits: 6

Typically Offered: SPRING

This lab will increase the student's knowledge, skills and proficiency in interior finishing by applying techniques learned in CARP 140. Activities will center around the construction of an actual house.

**CARP 150. Cabinetmaking**

Credits: 3

Typically Offered: SPRING

Instruction in the design and layout of kitchens, cabinets, vanities, countertops, and built-in closets. Students will increase their knowledge, skill, and proficiency through actual construction of cabinets.

**CARP 155. House Design and Code Requirements**

Credits: 2

Typically Offered: SPRING

Students will study home design and code requirements. Interior, exterior and environmental factors affecting the design of homes will be considered and explored.

**CARP 180. Introduction to Furniture Making**

Credits: 3

Typically Offered: FALL

Introduction to Furniture Making is an entry level class designed to be fun and instill a love for woodworking. Traditionally furniture makers learned their craft by apprenticing under Master Woodworkers. This class models that tradition through learning by doing. The class is open to anyone who has a desire to learn and a passion for making things with their hands. The class focuses on safety, skill development and building confidence as a woodworker.

**CARP 185. Furniture Making by Design**

Credits: 3

Repeat Status: Repeatable up to 6.00 credits.

Typically Offered: SPRING

Furniture Making by Design students will explore traditional and contemporary furniture styles. Students, as a class, will choose a style and design a piece of furniture that each student will have the opportunity to build. No prerequisites are required and all students are welcome.