

# CARPENTRY (RESIDENTIAL)

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## Overview

**Degrees Offered:** AAS, Diploma, Program Certificate

**Limited Enrollment:** Yes

**Program Begins:** Fall

**Delivery Method:** On Campus

**Phone:** 701-224-2429

**Email:** bsc.cet@bismarckstate.edu

## Description

Students in the BSC Carpentry program learn a wide variety of residential carpentry skills by building a single-family home in Bismarck. Study involves the safe and proper use and care of hand tools and power equipment. Students learn methods and principles of building construction, construction math, blueprint reading, sustainable/green building, energy efficient building, materials, cabinetry, drywall, and more. Carpentry is a limited enrollment, nine-month program that prepares students for entry-level jobs. Admission occurs in the Fall. Students are encouraged to apply early as openings are limited.

## Preparation

Carpentry is well suited to those who enjoy working outdoors and with their hands. Pride in workmanship and safe, dependable work habits are important for success. Background in these areas is helpful: building trade courses, basic math, basic residential drafting and blue print drawing.

Awareness of these technical standards may help students determine suitability for this career.

- Must have the ability to perform close accurate work, communicate effectively with others, present information in a clear concise manner, and follow verbal and written instructions.
- Requires good hand and finger dexterity.
- Requires continuous walking, frequent standing, bending, stooping, climbing ladders and stairs, kneeling, lifting and carrying up to 50 pounds, and carrying long or oversized loads.
- Frequently requires working over your head.
- Requires continuous use of hand and power tools.
- Frequently exposed to noise, dirt, dust, fumes, extreme heat and cold, and vibration.

## Requirements

Students who complete the curriculum requirements earn a Program Certificate. Additional coursework may lead to a Diploma or Associate in Applied Science degree.

## Special Costs

A tool set, toolbox, and books are required the first week of school.

## Career Opportunities

Graduates can apply for membership in apprentice training programs to complete journeyman carpentry requirements or enter the workforce. Typical employment is found as rough and finish carpenters, cabinet-makers, lumberyard workers, finishers within the construction industry, or self-employment. Carpenters may advance to carpentry supervisor or general construction supervisor positions.

## Degree Plans

- Carpentry (Residential) Associate in Applied Science
- Carpentry (Residential) Diploma
- Carpentry (Residential) Program Certificate

## Program Learning Outcomes

Upon graduation, Carpentry students will be able to demonstrate:

- Technical knowledge of Residential Framing.
- Technical knowledge of Residential Exterior Finish.
- Technical knowledge of Residential Interior Finish.
- Technical knowledge of Residential Cabinetry.

- Technical skills required for entry level positions in Residential Framing.
- Technical skills required for entry level positions in Residential Exterior Finish.
- Technical skills required for entry level positions in Residential Interior Finish.
- Technical skills required for entry level positions in Residential Cabinetry.