

## Carpentry DIPLOMA

### Program Overview

Construction is the largest industry in terms of investment and manpower expended. Carpenters make up the largest trade group in the construction industry. They erect the wood framework in buildings; they install wood paneling, cabinets, door and window frames, and hardware; and they build stairs and frame roofs. Carpenters work under a wide variety of conditions, indoors and out, in all types of weather. They use many different hand and power tools working with wood, concrete, metals, plastics, and other construction materials.

Good work habits, mechanical aptitude, and strong communication and math skills are necessary to become a successful carpenter. Carpenters must be able to climb, lift, carry, measure, calculate, and plan their work. They often work at considerable heights.

### Career Opportunities

Construction activity continues to be strong. Demand for quality carpenters exists in residential, commercial, and heavy construction. Increased activity in infrastructure and building renovation has provided additional opportunities for carpenters.

Carpenters can be involved in the many different phases of a building project or choose to specialize in areas such as framing, drywall, acoustic ceilings, concrete form building, hardware, and millwork. Many graduates continue their training by entering a formal apprentice program. Carpenter apprentices advance to journeyman by working on the job and attending classes related to their work. Advancement can continue to lead carpenter, carpenter foreman, and job superintendent. Carpenters are employed by a wide variety of construction contractors, or they may choose to become self-employed in their own business.

### Program Outcomes

1. Graduates will have the knowledge and skills to safely use hand and portable power tools used by carpenters in the construction industry.
2. Graduates will be able to work with wood, plastics, concrete, metals, gypsum, and various fiber composite products used by carpenters in the construction industry.
3. Graduates will have practiced procedures used by carpenters in framing layout, stair construction, wood and steel framing, and installation of doors, windows, and cabinets.
4. Graduates will be familiar with forming systems and types of scaffold used in concrete construction.
5. Graduates will be familiar with and have practiced job site safety requirements.
6. Graduates will be able to operate instruments and demonstrate procedures used in building layout.
7. Graduates will display effective work habits deemed necessary by employers.
8. Graduates will be prepared for entry level employment as carpenters and admission to the Carpenters Apprentice Training Program.

### Full-time enrollment is required

This is a full-time day program. Students should plan for a full day of classes.

### Special supplies and tool costs

Students should expect to spend approximately \$1,100, beyond the cost of tuition, fees, and books, for special supplies and tools. A list is available from the advisor.

### Program Requirements

Check off when completed

Course	Cr
<input type="checkbox"/> CARP 1410 Project Estimating . . . . .	3
<input type="checkbox"/> CARP 1420 Construction Blueprint Reading . . . . .	2
<input type="checkbox"/> CARP 1430 Intro to Carpentry & Hand Tools . . . . .	3
<input type="checkbox"/> CARP 1510 Intermediate Carpentry . . . . .	5
<input type="checkbox"/> CARP 1521 Building Technology . . . . .	5
<input type="checkbox"/> CARP 1522 Power Tool and Shop Procedures . . . . .	5
<input type="checkbox"/> CARP 2410 Advanced Carpentry . . . . .	6
<input type="checkbox"/> CARP 2421 Fieldwork and Carpentry Procedures . . . . .	5
<input type="checkbox"/> CARP 2422 Carpentry Concrete Technology and Installation . . . . .	5
<input type="checkbox"/> MATH 1411 Applied Mathematics . . . . .	3
<b>Total Program Credits . . . . .</b>	<b>42</b>

### Program Faculty

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### Program Start Dates

Summer

### Course Sequence

The following sequence is required.

#### First Term

CARP 1410 Project Estimating . . . . .	3
CARP 1420 Construction Blueprint Reading . . . . .	2
CARP 1430 Intro to Carpentry & Hand Tools . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>8</b>

#### Second Semester

CARP 1510 Intermediate Carpentry . . . . .	5
CARP 1521 Building Technology . . . . .	5
CARP 1522 Power Tool and Shop Procedures . . . . .	5
MATH 1411 Applied Mathematics . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>18</b>

#### Third Semester

CARP 2410 Advanced Carpentry . . . . .	6
CARP 2421 Fieldwork and Carpentry Procedures . . . . .	5
CARP 2422 Carpentry Concrete Technology and Installation . . . . .	5
<b>Total Semester Credits . . . . .</b>	<b>16</b>

**Total Program Credits . . . . . 42**

### Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

**Reading:** Score of 240+ or grade of "C" or better in READ 0721 or READ 0724 or EAPP 0860

**Writing:** Score of 225+

**Arithmetic:** Score of 250+

#### Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Information is subject to change.  
 This Program Requirements Guide is not a contract.