

Building Trades - Carpentry

28-credit Technical Diploma

About the Program

Building Trades students, with an emphasis in carpentry, will prepare for this career through a blend of classroom theory and hands-on experience. Students will become adept at using hand tools, portable power tools, and other equipment common in the carpentry profession as well as working with lumber, panel products, concrete, roofing materials, fasteners, and a variety of hardware. The skills needed for site layout and foundation work, rough framing, roof framing, and exterior and interior finish work will also be developed. In addition, blueprint reading, math, surveying, and estimating components will be studied.

Potential Job Titles

- Carpenter
- Finish Carpenter
- General Carpenter
- Rough Carpenter

Admission Process

- Fill out a WCTC application
- Send \$30 non-refundable application fee
- Send high school transcript or GED/HSED
- Send any previous college transcripts
- Complete Skills Assessment test (COMPASS)
- Begin pursuing Financial Aid options

For more information, call 262.691.5200.

Required Courses		Credits
First Semester		
475-301	Building Trades/Introduction	2
475-310	Construction Blueprint Reading	2
475-312	Construction Computer Skills	1
475-316	Carpentry I	2
475-317	Carpentry II	5
804-301	Applied Math	2+
Total semester credits		14
Second Semester		
475-318	Carpentry III	2
475-319	Carpentry IV	5
475-321	Estimating and Planning	2
475-350	Interior Finish	3
801-311	Communication in the Workplace	2+
Total semester credits		14
+ Proficiency exam available		
<i>Curriculum is current as of catalog printing. The most current curriculum requirements for graduation will be provided upon admission to program, or review at www.wctc.edu.</i>		

Building Trades - Carpentry Required Courses

475-301 Building Trades/Introduction	2	475-319 Carpentry IV	5
Explore the construction skill crafts, including carpentry, masonry and concrete trades, painting and decorating, electrical work, plumbing, heating/ventilation/air conditioning, and other trades in commercial, industrial, agricultural, and highway construction.		Develop skills in interior finish work, drywall, painting, cabinet installation, and floor covering as you continue work-site projects started in Carpentry II. Prerequisites: 475-317 Carpentry II (or concurrent) and 475-318 Carpentry III (or concurrent)	
475-310 Construction Blueprint Reading	2	475-321 Estimating and Planning	2
Become familiar with different types of construction drawings, architectural symbols, written specifications, related materials, and field sketching. Use divisions of work (CSI) and architectural catalogs to develop working drawings.		Gain proficiency using residential construction estimating skills and Timberline estimating software to create estimates for material and labor. Develop planning strategies using a scheduling software package. Prerequisites: 475-310 Construction Blueprint Reading and 475-316 Carpentry I and 804-301 Applied Math	
475-312 Construction Computer Skills	1	475-350 Interior Finish	3
Study the basic competencies of computers and their application in the construction industry. Learn about basic computer use, software programs used in the industry, hardware, word processing, and basic spreadsheet use.		Examine residential interior finish materials and application techniques, including plastic laminate and stone, custom millwork, ceramic and quarry tile, wallpaper, drywall, paint special effects, and floor coverings. Train in the installation of factory-built cabinets. Learn how to use the specialty tools required for each finish job. Prerequisites: 475-316 Carpentry I	
475-316 Carpentry I	2	801-311 Communication in the Workplace	2
Develop the basic skills required for on-site construction work. Learn safety principles, portable and stationary power tool operation, tool repair, and building techniques. Prerequisites: 475-301 Building Trades/Introduction (or concurrent)		Expand level of awareness and skill in interpersonal communications, both oral and written, while focusing on securing and maintaining a job. Develop competencies in the area of listening, sending, and employability skills.	
475-317 Carpentry II	5	804-301 Applied Math	2
Work on residential housing projects, including new construction and remodeling, during a work site experience. Focus on land development, foundations, rough framing, siding, and shingling. Prerequisites: 475-316 Carpentry I (or concurrent)		Develop the calculating, measuring, and estimating skills used in the construction trades. Discuss topics such as calculations with whole numbers, fractions, and decimals; calculations using percents; measures of length, area, and volume; and the use of power and roots.	
475-318 Carpentry III	2		
Continue preparations for on-site work begun in previous coursework. Focus on building techniques, scheduling materials, millwork machine set up, and the use of portable finish tools. Prerequisites: 475-316 Carpentry I			