

# Bricklaying and Masonry

25-credit Technical Diploma

## About the Program

Develop the skills, knowledge, and attitudes needed for an entry-level position in the bricklaying/masonry field. Students will gain an appreciation for employer and coworkers relationships, and gain familiarity with the use of hand tools, power tools, and other equipment regularly used by masons. Students will work with mortar, brick, stone, and block and learn to lay, align, and join brick and block to stone and concrete. Blueprint reading, math, and estimating are some additional skills developed through this program.

## Potential Job Titles

- Mason
- Brick Layer

## 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

408-301	Introduction to Masonry	2
408-306	Masonry I	4
408-307	Masonry II	4
804-311	Math Applications	2+
<b>Total semester credits</b>		<b>12</b>

### Second Semester

408-308	Masonry III	4
408-309	Masonry IV	4
408-320	Masonry Construction Fund	2
475-312	Construction Computer Skills	1
801-311	Communication in the Workplace	2+
<b>Total semester credits</b>		<b>13</b>

+ Proficiency exam available

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](http://www.wctc.edu).

## Bricklaying and Masonry Required Courses

<b>408-301 Introduction to Masonry</b>	<b>2</b>	<b>408-320 Masonry Construction Fund</b>	<b>2</b>
Become familiar with the masonry trade, the methods and materials of construction, and the masonry apprenticeship process. Develop an understanding of the opportunities available to masons, and the history and contributions of masonry construction in architecture.		Gain proficiency in basic sketching and in the development of orthographic drawings, construction plans, elevations, and construction specifications. Become familiar with structural steel reinforcements and explore their relationship to load-bearing masonry walls. Practice mathematical applications such as figuring and estimating quantities of masonry and using masonry tables and charts.	
<b>408-306 Masonry I</b>	<b>4</b>	<b>475-312 Construction Computer Skills</b>	<b>1</b>
Study construction materials, tools, and application methods while on site. Learn about stationary and portable power tool use and repair, and brick, block, and stone materials and application techniques. Prerequisites: 408-301 (or concurrent)		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.	
<b>408-307 Masonry II</b>	<b>4</b>	<b>801-311 Communication in the Workplace</b>	<b>2</b>
Acquire skills in block wall corners and leads, as well as in various brick bond and stone applications. Build garden walls, columns, piers, and fireplace surrounds. Prerequisites: 408-301 (or concurrent) and 408-306 (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.	
<b>408-308 Masonry III</b>	<b>4</b>	<b>804-311 Math Applications</b>	<b>2</b>
Continue to build on-site skills while developing knowledge of project design and management, the selection of specialty tools, and glass, tile, and terra cotta finish materials. Prerequisites: 408-307		Develop the calculating, measuring, and estimating skills needed in the bricklaying/masonry trades. Study calculations involving whole numbers, fractions, and decimals; calculations using percent; measures and computations of length, area and volume; and the use of powers and roots.	
<b>408-309 Masonry IV</b>	<b>4</b>		
Use finish materials and tools, including colored mortar, exposed aggregate, and glass block. Develop commercial masonry skills. Prerequisites: 408-308 (or concurrent)			