Program Overview
The Bricklaying and Masonry program will prepare you to work as a brick mason or block mason for both residential and commercial construction. You will learn proper building techniques through hands-on projects including spreading mortar, laying brick to the line, and building corners, arches, and fireplaces. You will also take courses in job-related math, communications, print reading, and estimating.

Student Profile
As a Bricklaying and Masonry student, you should be able to:
- Move fingers and hands rapidly
- Visualize forms from prints and sketches
- Perform arithmetic accurately
- Plan your work
- Make decisions
- Enjoy working outdoors
- Assume responsibility for the quality of your work
- Organize work rapidly
- Work for long periods
- Lift 75 pounds
- Work from scaffolding

Preparation for Admission
The following experiences will help you prepare for this program:
- Mathematics
- English
- Drafting
- Print Reading
- Applied Science
- Tech Ed Classes

Program Outcomes
Employers will expect you, as a Bricklaying and Masonry graduate, to be able to:
- Handle the trowel, level, and other hand tools properly.
- Use layout tools and measuring devices.
- Build brick walls.
- Build concrete block walls.
- Build corner leads.
- Read and interpret prints.
- Use and operate related equipment such as a masonry saw, mortar mixer, and small jack hammers.
- Estimate materials and costs for small- and medium-sized projects.
- Work diligently and productively.

Career Outlook
After graduating from the Bricklaying and Masonry program, you will be ready to start your career as a:
- Bricklayer
- Blocklayer
- Bricklayer Helper

After further education and work experience, a graduate may move into one of these related positions:
- Bricklayer Foreperson
- Cement Mason
- Tile Setter
- Stone Mason

Curriculum

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<tr>
<th>Number</th>
<th>Course Title</th>
<th>Credits</th>
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<td>Sketching and Print Reading</td>
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<tr>
<td>31408301</td>
<td>Bricklaying/Masonry Basics 1</td>
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<td>31408306</td>
<td>Considerations in Construction ▲</td>
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<td>31408307</td>
<td>Industry Concerns ▲</td>
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<td>31408308</td>
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PROGRAM REQUIREMENTS 29

▲ This course requires a prerequisite and/or corequisite, and must be completed with a grade of “C-” or better.
Course Descriptions

31408300
Sketching and Print Reading - Credits: 2
This course provides instruction in basic sketching and print reading as applied to the masonry trade. Students are introduced to working drawings and their development. Topics include specifications, line and symbol identification, dimensions, and scales.

31408301
Bricklaying/Masonry Basics 1 - Credits: 5
This course covers safety for construction in bricklaying, introduces trade terms, and instructs in care of masonry tools. The course also provides basic instruction in laying brick and block with application to straight walls, corners, and jambs. Students will develop skills in handling of bricklaying tools, spreading mortar, laying bricks and blocks to a line, and striking joints.

31408302
Bricklaying/Masonry Basics 2 - Credits: 5
This course provides instruction in laying brick and block with application to straight walls, corners, and jambs. Students will develop skills in handling of bricklaying tools, spreading mortar, laying bricks and blocks to a line, and striking joints. COREQUISITE: 31408301 Bricklaying/Masonry Basics 1.

31408304
Estimating - Credits: 1
This course introduces students to basic methods of estimating and develops a system for doing quantity surveys. Estimates commonly used in mathematics and masonry construction are emphasized. PREREQUISITES: 31408300 Sketching and Print Reading and 32804372 Math 372.

31408305
Bricklaying/Masonry, Advanced/Specialized - Credits: 5
This course provides skill development in detailed and technical masonry work as well as walls. Emphasis is on developing masonry skills to accepted trade standards. PREREQUISITE: 31408302 Bricklaying/Masonry Basics 2.

31408306
Considerations in Construction - Credits: 2
This course covers trends and developments in the field of masonry. The student will be instructed on utilizing recommended trade practices necessary to become a successful mason. PREREQUISITE: 31408302 Bricklaying/Masonry Basics 2.

31408307
Industry Concerns - Credits: 1
This course will help the student develop common sense, critical thinking, and the use of good judgment as needed to become successful in the masonry industry. The student will explore masonry careers, education for advancement, and responsibilities for becoming a productive mason. To become successful and advance within an organization, employers are requesting that technicians have a higher level of interpersonal skills. PREREQUISITE: 31408302 Bricklaying/Masonry Basics 2.

31408308
Internship - Credits: 4
Internship is designed to provide students with on-the-job experience in actual work situations. These experiences strengthen student competencies through participation in a wide variety of occupational experiences, ranging from routine assignments to specialized work-related duties. PREREQUISITES: 31408300 Sketching and Print Reading, 31408302 Bricklaying/Masonry Basics 2, 32804372 Math 372, 32801361 Applied Communications 1, and COREQUISITES: 31408304 Estimating, 31408305 Bricklaying/Masonry, Advanced/Specialized, 31408306 Considerations in Construction, and 31408307 Industry Concerns.

Graduate Employment Information
(WITC Graduate Survey Responses 2005-2006)

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