



Students learn to construct interior and exterior walls, columns, doorways, window openings, fireplaces, chimneys, foundations, patios, and sidewalks from brick, concrete block and stone. They learn to mix/spread mortar, set-up scaffolding, read blueprints and plans, and estimate materials needed for a project. Students are also trained to lay-out buildings on footings and establish grades using a surveying transit. Upon completion of the program, students are qualified for full-time employment in the construction field.

### Major Units of Study

- Arches
- Basic Hand Tools
- Brick Veneering
- Building Block Leads or Corners
- Career/Business Opportunities
- Chimneys and Fireplaces
- Cleaning Masonry Work
- Foundations, Footings, and Waterproofing
- Laying Brick to the Line
- Masonry Equipment
- Masonry Supports, Chases and Bearings
- Steps and Brick Paving
- Stone Work

### Related Careers

- Brick Layer
- Contractor
- Estimator
- Foreman
- Mason Tender
- Masonry Contractor
- Renovation Specialist
- Self-Employment
- Stone Mason

### Post-Secondary

- Apprentice Programs
- Articulated with the Associated Builders & Contractors, Inc. apprenticeship program
- Articulated with the Community College of Baltimore County
- Colleges
- Military Services
- On-the-job Training
- Technical Schools



Visit the Carroll County Career and Technology Center website:  
<http://www.carrollk12.org/ctc/>



**COMPLETER: *Masonry***

**CREDITS: 6**

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
	Freshman Seminar (.5)			
<b>Completer Program Requirements</b>			Masonry I (3)	Masonry II (3)
<b>Career Specific Electives</b> (may be taken any year offered after prerequisites have been satisfied)	Technical Drawing & CADD (1), Manufacturing & construction Technologies (1), Accounting I (1), Electronics (1), Agricultural Mechanical Technology (1), Business Principles & Practices (1), Work-Based Learning Experience (.5-1)			
8 credits possible per year				
<b>Value Added:</b> <b>From:</b> <b>Program:</b>	Up to 1 year toward Apprenticeship Associated Builders & Contractors	6 Articulated Credits Community College of Baltimore County, Catonsville Construction Technology		
<b>End of Program Test:</b> <b>Industry:</b> <b>Taken:</b>	NCCT Masonry Level I National Center for Construction Education and Research (NCCER) At the end of Masonry II			