

Scope and Sequence Bricklaying

Academic Subjects – Career success and postsecondary education success require the same level of college prep coursework. The Pennsylvania Department of Education’s (PDE) focus is to ensure that every student is prepared for college and a career. Academic courses such as applied math or general science cannot be listed on the program’s scope and sequence. PDE’s goal is to have all students perform at the competent or advanced level on the PSSA, and earn the Pennsylvania Skills Certificate on the end-of-program assessment.

	SECONDARY				POSTSECONDARY based on PENN COLLEGE OF TECHNOLOGY			
	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade	Semester One	Semester Two	Semester Three	Semester Four
Technical Units		Safety Procedures and Basic Masonry Principles Wall Layout Trowel Use Level Gauge & Square Apply Lay Basics Tool & Point Joints Tools and Equipment Job Seeking/Keeping Skills	Intermediate Masonry Principles Measuring Skills Power Tools in Masonry Reinforcement Anchors OSHA- 10 hour safety Card Job Seeking/Keeping Skills	Advanced masonry Principles Masonry Structures-Hardscapes Tool & Point Joints Tools & Equipment Read Plans & Estimate Materials Arches, Chimney & Fireplaces Set Wall & Floor Tile	BCT 102: Construction Safety and Equipment BCT 103: Construction Hand and Power Tools BCT 110 Site Preparation and Layout MCT 115 Concrete Block Construction	BCT 117 Construction Materials and Application I BCT 107: Print Reading and Architectural Drafting MCT 129 Brick Masonry	MCT 233: Stone Masonry MCT 239: Fireplace Construction BCT 238 Concrete Construction	MCT 262 : Structural Masonry Systems BCT 256 Residential Construction, Planning, Schedule
English	College Prep English I	College Prep English II	College Prep English III	College Prep English IV		ENL 111 English Composition I	ENL 201 Technical and Professional Communications	

Math	Algebra I	Algebra II	Geometry	College Prep Math (recommended)	MTH 124 Technical Algebra and Trig			
Science	Biology	Chemistry	Physics				PHS 114: Physics with Technological Applications	
Humanities	Civics	American History	World Studies				Humanities Elective	Fitness Elective
Other Required Courses/ Electives	Foreign Language I (recommended)	Foreign Language II (recommended)						