

Course Name: Geometry in Construction-Construction	
Department: Industrial Arts	Grade Level(s) 10-12
Duration/Credits: 1 year/ 1.0 credit (Practical Arts)	Prerequisites: Any Algebra II Course
BOE Approval Date:	Course Code
Course Description:	
<p>NOTE: The student must also be concurrently enrolled in Geometry in Construction-Geometry course.</p> <p>This course is one part of the combined Geometry in Construction course. Through hands-on learning experiences and the building of an actual structure, the student will apply geometry concepts to a variety of construction processes in order to see the connection between the two. The student will gain a hands-on understanding of basic construction methods, construction safety, and the variety of tools needed for different construction tasks. Through this course, the student will be exposed to a variety of construction trades and the skills needed to succeed in the construction industry. This contextual learning experience allows the student to see a variety of geometry concepts used in a real-world setting. The student will be enrolled in two courses and receive both a Practical Arts and a Geometry credit.</p>	
Course Rationale:	
<p>Technical skills are in high demand in the construction industry. This course gives the student the opportunity to apply geometry into the different aspects of the construction industry. The student will acquire technical hands on skills when they build the community capstone project.</p>	
Course Objectives:	
<ol style="list-style-type: none"> 1. The student will research and apply safety protocols in the construction industry and the classroom. (A+ Research) 2. The student will communicate the use of geometry concepts to layout and build construction projects. (A+ Speaking and Listening) 3. The student will read plans and technical drawings to construct projects. (A+ Reading) 4. The student will use measurement and hand and power tools that are used in the construction industry to build the capstone project. 5. The student will communicate their plans and project goals and outcomes in a written format. (A+ Writing) 	