

Building Construction (Construction Technology) CTE Program

Career Tech Student Organization: SkillsUSA
Career Readiness Indicator Credential: NCCER

Architecture & Construction Foundations

Course Code: 17002G1002

1 Credit

Prerequisite: None

Course Fee: \$25

Architecture and Construction Foundations is the foundation course for the Building Construction (Construction Technology) program and provides students with an overview of the construction industry. Students will be engaged in challenging curricula and develop technical skills in the areas of safety/OSHA, related mathematics, hand tools and power tools, analyzing and interpreting construction drawings and specifications, and basic employability skills. Students will also explore the various career opportunities within, and related to, the construction industry. This course utilizes NCCER curriculum.

Construction Finishing

Course Code: 17011G1001

1 Credit

Prerequisite: Architecture & Construction Foundations

Course Fee: \$25

This course is designed to facilitate students' understanding of the exterior and interior finishing phases of construction. Content covers virtually all processes that follow the structural elements of a project. Topics include career exploration of various trades involved on a jobsite, OSHA/safety, windows, and door installation, plumbing and electrical components and systems, insulation, exterior cladding, and interior finishes. This course utilizes NCCER curriculum.

Residential Building

Course Code: 17002G1010

1 Credit

Prerequisite: Architecture & Construction Foundations

Course Fee: \$25

This course is designed to facilitate students' understanding of the framing components of typical structures. Students will complete all requirements for NCCER Core Credentialing. Emphasis is placed on safety, career exploration as it relates to carpentry, floor systems, wall and ceiling framing, stair construction, and roof framing. This course utilizes NCCER curriculum.

Wood Technology 2D Design

Course Code: 17006G1001

1 Credit

Prerequisite: Architecture & Construction Foundations

Course Fee: \$25

Course emphasis is on the acquisition of woodworking knowledge and skills through a hands-on process of manufacturing various projects. Students will understand planning and layout processes, how to safely use tools and machines to process materials, follow standard assembly procedures, and perform finishing processes. Students will explore career opportunities related to construction, engineering, and manufacturing. Topics include safety, mathematical concepts, computer proficiency, utilizing CAD-CAM software, and designing and creating two-dimensional and three-dimensional projects via computer numerical control operations.

