



CAREER & TECHNICAL EDUCATION



CONSTRUCTION



**JACKSON
HIGH SCHOOL**
330-837-3501



CONSTRUCTION TECHNOLOGY



Construction Technology

The Construction Technology Program at Jackson High School is designed for students who desire an exciting and lucrative career after high school. Construction Tech students graduate from the program with industry-standard certifications and work experiences.

The Road Ahead

According to the U.S. Bureau of Labor Statistics, 663,500 openings are projected each year, between 2023 - 2033. This growth is faster than the average for all occupations. Overall growth in the economy and population will increase demand for new buildings, roads, and other structures, which will create new jobs in construction and excavation occupations over the next decade.

For More Information
330-837-3501

Brian Clevenger, Construction Instructor, ext. 1535
Donna Jeffers, Assistant Principal,
Career & Tech Director, ext. 1407

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Curriculum

This is a 2 year program

Junior Year - 3 credits

Core and Sustainable Construction - Students will learn principals in basic safety, construction, math, hand and power tools operation, blueprint reading, material handling, communication, and employability skills. An emphasis will be placed on safe and green construction practices.

Carpentry and Masonry Technical Skills - Students will be introduced to the materials, methods, and equipment used in carpentry and masonry. Students will organize a project work sequence by interpreting plans and diagrams within a construction drawing set. They will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technology, safety, application code requirements, and correct practices are learned.

Senior Year - 3 credits

Structural Systems - Students will learn procedures and techniques required for layout and framing walls and ceilings, including roughing-in door and window openings, constructing corners and partitions, bracing walls and ceilings, and applying sheathing. Students will learn methods of roof, cold formed steel, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems.

Structural Coverings and Finishes - This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, louvers. Students will install drywall, trim-joinery and molding and apply wall, floor and ceiling coverings, and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.