



# CAREER & TECHNICAL EDUCATION



# CONSTRUCTION

**JACKSON**  
HIGH SCHOOL

JACKSON HIGH SCHOOL CAREER AND TECHNICAL EDUCATION  
330-837-3501. [www.jackson.stark.k12.oh.us/webpages/careertech](http://www.jackson.stark.k12.oh.us/webpages/careertech)



# CONSTRUCTION TECHNOLOGY



## Jump Start Your Future in Construction Technologies

### 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 experience.

### The Road Ahead

The U.S. Dept. of Labor forecasts that the employment of construction and extraction occupations is projected to grow 11 percent from 2016 to 2026, faster than the average for all occupations, a gain of about 747,600 new jobs. 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 Tech Instructor, ext 1535

Rich Dinko, Career and Tech Director, extension 1424

**JACKSON**  
HIGH SCHOOL

### Curriculum

This is a two-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.

