

COLLEGE TECH PREP

Construction Technologies

In Level 1, students are introduced to many aspects of construction including remodeling, estimating, framing, roofing, exterior finishing, interior finishing, cabinets, countertops and trim work. By applying math, science, communication and team building skills, students construct real-life application projects in the spacious lab while also learning to operate a wide range of hand, power and air tools. Because the class focuses on residential construction, students learn to build from floor to roof, which helps prepare them for a career in the construction industry. The construction process introduces them to basic electrical, plumbing and masonry work. In Level II, students have the opportunity to complete a paid internship with contractors on actual job sites. Completers of this program have entered apprenticeships, enrolled in two- and four-year colleges and worked for a contractor or builder as a carpenter. Many have even started their own construction business! Post-secondary credits available based on successful completion of the program and criteria set by the Ohio Department of Higher Education.

Skills necessary for success

- Problem-solver
- Applied mathematics
- Able to visualize completed projects
- Ability to estimate and plan
- Use of hand and power tools
- Manual dexterity
- Safety awareness
- Designing and organization

Professional pathway

- General contractor/Remodeler
- Mason
- Carpenter
- Cabinet maker
- Rough framer
- Plumber
- Electrician
- Roofer
- Maintenance technician
- Drywall installer/Plasterer
- Estimator
- Construction supervisor
- Property manager
- Building inspector
- Architect
- Construction manager
- Interior Designer

Recommendations

- Excellent attendance record
- Minimum 2.5 GPA

Areas of Concentration

- Construction technology—Core and sustainable construction
- Carpentry and masonry technical skills
- Structural systems
- Structural coverings and finishes

Career interests/helpful background

- Interest in constructing and remodeling homes
- Interest in construction management
- Read blueprints and apply designs
- Interest in interior design of homes

Higher education opportunities

- College credits available. See page 32.
- Associate's degree
- Bachelor's degree

Apprenticeships

GRADE LEVEL: 10, 11, 12

LENGTH: Two years

SCHOOL: Roosevelt

CREDIT:

Level I: CP or Comp English 1; Construction Tech IA (Construction Safety) 1.5; Construction Tech IB 1.5.

Level II: Construction Tech IIA 1.5; Construction Tech IIB 1.5. Optional Capstone* 1. (*Capstone includes project/problem-based learning opportunities that occur both in the building and at an external site. Students may combine classroom teaching with work experience.)

