

COLLEGE TECH PREP**Wood Product Technologies and Cabinetry**

In this program, students are introduced to the highly technological field of industrial woodworking. Through industry and post-secondary recognized certifications and using industry-accepted standards, computer software and machinery (such as a state-of-the-art CNC router and sliding table saw), students are introduced to concepts of wood product materials and technologies, design, production of architectural millwork, cabinets and furniture; molding, trims and panels, as well as wood crafting skills to build both community and personal projects. Entry into the career field of architectural millwork and cabinetry or college degree programs are options.

Skills necessary for success

- Computer expertise
- Work with power tools, hand tools, and power equipment
- Plan and implement designs
- Precise measurements and calculations

Professional Pathway

- Millwright
- Finish carpenter
- Custom cabinetmaker
- Furniture engineering draftsman
- CAD/CAM operator/programmer
- CNC programmer
- Designer
- Custom finisher
- Draftsman

Higher education opportunities

- 9 college credits available at The University of Akron, Summit College. See page 34.

**Program Recommendations**

- Excellent attendance record
- Minimum 2.0 GPA

GRADE LEVEL: 10, 11, 12**LENGTH: Two years****SCHOOL: Roosevelt****CREDIT:****Level I: Tech Theory 1; Lab 1; CP English 1****Level II: Tech Theory 1: Lab 2, Externship available.****Fundamentals in Wood and Metal Manufacturing**

Students will be introduced to machine safety, setup, operation and precise measurement skills – specifically how they impact modern wood and metal manufacturing. Material characteristics and properties of both metal and wood will be explored. Students will experience hands-on and practical applications of academics by working on projects in metal and wood. Career exploration will include discussions of industry pathways in both woods and metals. An emphasis is placed on safety,

quality work and proper hand tool and power equipment identification and usage. Students are required to purchase safety goggles/glasses and pay a lab fee. In addition, students must purchase materials used in the fabrication of their projects.

GRADE LEVEL: 9, 10**LENGTH: Semester****SCHOOL: Roosevelt****CREDIT: .50**