

CONSTRUCTION

Core Courses:

Construction Core
Carpentry I A/B
Carpentry II A/B

5730 Construction Core

Grade level: 9, 10, 11

Credit: 1

Construction Core introduces students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements. A scale model house is built to demonstrate all the components of construction.

5731 Carpentry I A/B

Grade level: 10, 11, 12

Credit: 1-2

Prerequisite: Algebra I, Construction Core

Carpentry I introduces students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete building materials, fasteners, hand and power tools, fabrication based on construction plans, and framing of platform and post-and-beam structures, in both wood and metal. This course provides an introduction to the skill and knowledge base typically required for apprentice carpenters.

5732 Carpentry II A/B

Grade Level: 11-12

Credit(s): 1-2

Prerequisites: Construction Core, Carpentry I, Algebra I, Geometry, Physical Science

Carpentry II extends the student's skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters.

5398 T&I Co-Op

Grade Level: 12

Credit(s): 1-2

Teacher recommendation is required.

Student Organization:

SkillsUSA prepares America's high performance workers. It provides quality education experiences for students in leadership, teamwork, citizenship and character development. It builds and reinforces self-confidence, work attitudes and communications skills. It emphasizes total quality at work, high ethical standards, superior work skills, life-long education and pride in the dignity of work. SkillsUSA also promotes understanding of the free enterprise system and involvement in community service activities. SkillsUSA meets during school on assigned club days.

Work-based Learning:

- Opportunity for an internship during the summer between the Junior and Senior years in the chosen pathway.
- Opportunity for a cooperative learning experience during the senior year.

Related Careers:

Construction Trades and Extractive Occupations, Structural and Reinforcing Occupations, Construction Machinery Operator, Construction and Building inspector, Construction Contractor and Manager, Civil and Mechanical Engineers, Materials Testing Engineer, Materials Inspector, Industrial Designer, Construction Scientist.