

Carpentry

Students enrolled in Carpentry program learn the fundamentals of residential and commercial construction. The program enables students to earn a variety of industry related certifications including Associated Builders and Contractors, Bobcat Safety, Forklift Operator, Scissors Lift, and OSHA safety. Students must purchase boots, work clothes and a tape measure. As a recognized Program of Study by the Department of Education, students can take advantage of many statewide articulation agreements to gain post-secondary credits.

Carpentry – Three (3) Year Program – 25 Credits for Graduation CIP #-46.0201-Program of Study

| Period | 9 | 10 | 11 | 12 |
|--|------------------------------|-----------------------|--|---|
| 1 | English I | English II | English III | English IV |
| 2 | Algebra I | Geometry | Algebra II | Civics |
| 3 | Geo- Environmental | Biology I | World History I | Chemistry or Physics |
| 4 | PE/Health I | PE/Safety Education | PE Health II (11 th or 12 th) | PE Health II (11 th or 12 th) |
| 5 | US History I | Carpentry I-AM | Carpentry II-PM | Carpentry III-PM |
| 6 | Foundations of Technology | Carpentry I-AM | Carpentry II-PM | Carpentry III-PM |
| 7 | Arts & Humanities credit | Carpentry I-AM | Carpentry II-PM | Carpentry III-PM |
| CTE Total Hours CATS: 1,080 Carlisle: 1,445.7 | | 481.90 hours | 481.90 hours | 481.90 hours |

- Students must make up failed classes in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.
- Students should plan to take the Arts and Humanities requirement in ninth grade.

Carpentry Trades I - Course #905

Recommended prerequisite: None

Grades: 10-12

Certification goal: ABC Credential (Assoc. Builders and Contractors)

Required equipment: boots-work clothes-tape measure

3 credits
15 pds/wk

Carpentry Trades I is the first course in a three-year sequence. Students learn the fundamentals of both the residential and commercial construction occupations. Much of the instructional time is spent working on assigned projects designed so the fundamental operations of construction are learned including, use of hand and power equipment, safety, construction styles, craftsmanship, blueprint reading basics, trade mathematics, and team-building skills.

Carpentry Trades II - Course #906

Prerequisite: Carpentry Trades I-minimum competencies

Grades: 11-12

Certification goal: ABC Credential

Required equipment: boots-work clothes-tape measure

3 credits
15 pds/wk

Carpentry Trades II continues with instruction in the Associated Builders and Contractors curriculum. Classroom instruction builds upon the competencies mastered in the previous year and provides broad

experiences in the areas of carpentry, masonry, cabinetry, heavy construction, and interior systems. This course emphasizes safety, artisanship, and professionalism.

Carpentry Trades III - Course #907

Prerequisite: Carpentry Trades II-minimum competencies

Grade: 12

3 credits

Certification goal: ABC Credential-Bobcat Safety-OSHA Safety
Forklift Operators Certificate, Scissor Lift Operators Certificate

15 pd/wk

Required equipment: boots-work clothes-tape measure

Instruction targets the more advanced areas of construction. Students pursue commercial or residential specialties. In the commercial area, instruction includes form construction, finish construction, reinforced concrete, metal framing, and advanced blueprint reading. Theory emphasizes commercial construction methods; practical work consists of specialized work/projects. Those selecting residential construction concentrate primarily on residential framing construction techniques. Theory relates to the practical experience acquired through numerous lab and field experiences. Basic instruction includes advanced floor, wall, ceiling, and roof framing. Instruction also centers on materials, fasteners, and tools. Students focus on learning trade ethics, safety, cooperation, and leadership. Students demonstrating trade and professional competencies may be eligible for a Capstone Cooperative Education experience in the carpentry-construction trades industry.