

Construction Trades and Woodworking

Bixby Educational Events

Course Syllabus

Choice Plus #4: Learning Center Vendor Supported

Curriculum Choice in Pathways: Elective

Recommended Grade Level: 9th, 10th, 11th, or 12th

Pre-requisite: None

Length: Year

Credit Value:

- Construction Trades and Woodworking (5 Units)

Course Description:

This is a basic course of woodworking and various construction trades. Hands on learning is an important part of this course, along with the use of mathematics. Students will complete projects using various hand tools. Students will acquire general working knowledge of the terminology of various construction trades and will complete one or more in-class and one or more out of class projects. Students gain familiarity with and proper use of various hand tools and measuring devices. Students will learn the difference between hard and soft woods, their function and how to identify them.

Curriculum

- Instruction at BEE Bixby Learning Center: <https://bix-bee.org/>
 - Session 1
 - Construction Tools
 - Construction Terminology
 - Session 2
 - Measuring Devices
 - Session 3
 - Sanding
 - Bird House Project
 - Session 4
 - Fastening Systems
 - Plumbing Codes
 - Session 5
 - Tool Box Project
 - Framing Codes and Types of Loads
 - Session 6
 - Code Review
 - Treasure Chest Project
 - Session 7
 - Electrical Codes

- Session 8
 - Log Cabin Project
- Session 9
 - Project Completion
 - Terminology and Code Review
- Session 10 and 11
 - Build a portable wall to code
 - drywall
 - venetian plaster finish
- Session 12
 - Final Exam
- All Key Assignments

Key Assignments

1. Student will attend class and complete all components of the selected course as indicated by the vendor's course syllabus.
2. Student will complete periodic assessments, including but not limited to a mid-term and final exam/project/paper, without outside assistance or use of notes or the text.
3. HST will collect work samples on a monthly basis and upload to student's file

Criteria for Grading

- The earn an "A," the student will complete all assignments with an average of 90% or above
- The earn an "B," the student will complete all assignments with an average of 80-89% or above
- The earn an "C," the student will complete all assignments with an average of 70-79% or above