Syllabus

SOPHOMORE CARPENTRY

Description of the course:

 This course offers students the opportunity to develop skills required for residential construction. Emphasis is placed on the identification and application of OSHA regulations and the following of practices used to avoid on-the –job accidents. Instruction for our on-campus program will focus on one or more of the following, including: Play houses, sheds & small carpentry projects.

Units of study:

* **Safety** (hand & power tools, personal protective equipment, housekeeping & safety tips)
* **Introduction to Framing** (framing terms, lumber, sheathing, nails & tools)
* **Nailing Patterns** (nail top plate to stud, bottom plate to stud, double plate to top plate, corner block, jack studs, wall to wall, wall to floor, floor joist to rim joist, ceiling joist and rafters to top plate, rafters to ridge &nailing sheathing)
* **Floor Framing** (cut joist to length, crown and place joist, keeping joists parallel, squaring a floor & sheathing a floor)
* **Wall Framing** (identify and cut wall parts, make-up headers, assemble walls, square walls, sheath walls, standing and setting walls, plumb & line, & gable end walls)
* **Roof Framing** (roof framing terms, layout and cut common rafters, assemble ceiling joists and rafters, sheath roof, install rakes, facias & soffits)
* **Doors & Windows** (Installation of window & door flashing, exterior doors, & windows. Manufacturing doors & windows. Window types)
* **Layout** (wall, floor & rafter)

Other topics covered in the field include:

* Engineered wood Products
* Preparing for a job
* Managing a framing team

Text: Complete Book of Framing by Scott Simpson

Grading:

* Homework: 7.5%
* Quizzes: 7.5%
* Tests: 10%
* Shop & Field Work: 75%

The above written work will count 25 points of each quarterly grade, and field work will count 75 points of each quarterly grade. Your four-quarter average of the above will constitute 80% of your grade for the year; your final exam will make up the other 20%.