

## **Basic Construction**



It takes a lifetime to build a reputation and a split second to tear it down.

**Prerequisite:** Completion of Woods 1 with a “C” or better.

**Length:** Trimester

**Fee:** \$10

**Description:** This course is designed to build on the skills and knowledge gained in Woods 1. New hand and power tools as well as procedures will be gained and added to their knowledge base. Students will practice on shop projects. Students will learn about basic residential construction techniques with an emphasis on framing. A large emphasis will be placed on workplace skills attitudes and work habits. If time allows, students may work on a shop project after course requirements are met and materials are paid for. This class is a prerequisite of Advanced Construction.

**Safety:** Review and retake Cumulative Safety Test  
New Machinery Safety  
Basic Construction Safety Test

**Math:** Measurement Quiz  
Conversions Worksheet and Conversions Quiz  
Area/Volume Worksheet

**Reading:** Chapters 1, 2 and 3 Quiz

**Videos:** Framing Floors, Framing Walls,-Quiz on each

**Sustainable Building Practices:** **Framing;** Raised hell Trusses, Staggered Stud wall Framing.

**Insulation;** R-Value and U-Factor, Reducing thermal bridging, Thermal Bridging, different types of insulation; **Alternative Energy Resources;** solar, thermal, passive solar

**Production:** Work in the shop will be graded on how Prompt, Prepared and Safe students work. Students Quality of work as well as work ethic will play a large part in their grade. Also taken into consideration for the students grade will be the compliance to all school and shop regulations.

**Projects:** **Bird House Challenge** - Students will build a bird house using some of the skills and machinery gained in Woods 1. This is a warm-up designed to refine woodworking and problem-solving skills. Students will be required to create their own drawing, measurements and plan of procedure.

**Scale Building Projects** – Students will layout, label and build a wall framing project. They will do this in pairs.

**Shed/Playhouse Project** – Students will layout, frame, roof, install windows and doors. Depending upon time, students will also learn basics of installing electrical boxes, light switches and plumbing.

**Exams:**      **Final Exam** - Study Guide (extra credit opportunity)  
Shop Final Exam  
Cumulative Written Final Exam