

## **CONSTRUCTION/METALS TECH II COURSE OUTLINE**

### **DESCRIPTION**

Construction Tech II is a course designed for those students who have successfully completed Construction Tech I. Each student will be required to complete all of the basic safety and equipment tests along with other possible beginning assignments. This class will use the skills from Tech 1 and continue with more advanced skills and procedures. Each student is expected to have a personal project which applies the knowledge and skills in which they have learned.

Tech IIA will concentrate on construction. The first quarter will have an emphasis on cabinet design and structure. Each student will learn the basic construction techniques of cabinetmaking. This will include casing, door, and drawer construction. They will also learn how to use plastic laminate along with countertop construction. These techniques will be used in personal projects of their choice. Additional shop fees will be issued for materials used.

The second quarter will concentrate on basic building construction. Topics such as concrete, framing, roofing, basic wiring, plumbing, and finish work will be discussed. There is a possibility of working on school projects or community projects in the field. A culminating project of a storage shed will use most of the techniques. Students can work on a project of their own if it shows the use of these skills and procedures.

Tech IIB will concentrate on advanced metalwork. A review of all safety and tools, bench work, gas welding, and cutting will be reviewed. Overhead and vertical welding, along with new processes will be added. The new processes will include dual shield, cast iron, tig, and some machining. All personal projects using school materials will be at the cost of the student.

### **GRADING**

Grading will consist of two parts.

- a) Daily participation and attendance 40%  
Each student will be given a daily effort grade of 1-4. Excused absences can be made up before school.
- b) Leadership- 5pts per activity, total of 20pts
- c) Project grade 60%  
Each project or weld will be worth 10-40 pts each.