

Industrial Technologies Course Outline

General Objectives: Students will learn the safe use of all the construction tools, and fabrication tools. Students will also learn to identify materials used in wood construction processes, as well as metals. The primary goal will be on teaching the students safety aspects of all the equipment and proper procedures for using them. They will complete a small written component that focuses on the basic tools and materials used in a construction shop. They will use the information to build some projects out of wood and some out of metals.

The course will be composed of 5 different CTS modules worth 1 credit each. The students must pass all the different modules to get the total 5 credits. This means the student must work productively during class time.

Module Evaluation will be based on the following.

Theory and Work Habits: (30%)

Workbooks 10%(depending on course)

Effort & Attitude 20%

Modules to be completed for 1st year CTS

CON 1010: CONSTRUCTION TOOLS & MATERIALS

CON 1120: PRODUCT MANAGEMENT

CON 1130: SOLID STOCK CONSTRUCTION

FAB1010: FABRICATION TOOLS AND MATERIALS

FAB1050: BASIC ELECTRIC WELDING

Modules to be completed for 2nd year CTS

CON 1160: MANUFACTURED MATERIALS

CON 1140: TURNING OPERATIONS

CON 2130: FURNITURE - BOX CONSTRUCTION(prerequisite 1120)

FAB 1110: BAR AND TUBULAR FABRICATION

FAB 2110: FORGING FUNDAMENTALS

Modules to be completed for 3RD year CTS

CON 2150: FINISHING & REFINISHING

CON 2170: CABINETMAKING - DOOR & DRAWER

CON 3140: FURNITURE - SURFACE ENHANCEMENT

CON 3160: CABINETMAKING - CABINETS & COUNTERTOPS

FAB 2050: ARC WELDING 1

General Classroom Expectations:

- **Come prepared for class = PENCIL EVERY DAY, NO MATTER WHAT!!!!!!**
- Come on time
- Respect others
- Respect school property (text books, desks, and classrooms)
- No rude language
- "If it is not yours, **DON'T TOUCH IT!**"
- Work hard during class
- Use common sense

Late Policy

After 3 Lates: Late contract with office and phone call home. Extra shop clean-up duties or project work for 10-20min each time

Student Signature Contract to Follow Construction/Fabrication Shop Expectations:

- Use common sense!
 - o Eye protection must be worn when any power tools are used in the shop
 - o Horseplay, running, and throwing things are prohibited at all times
 - o *Observe all specific machine safety rules*
 - o Remove any loose or dangling jewelry and remove or fasten any loose clothing. As well tie up long hair, proper footwear required at all times
 - o No yelling or screaming in the shop or classroom
- instruction must be received from the instructor before any power tools are used for the 1st time each year
- leave all coats, jackets and bags in your locker
- **proper footwear must be worn at all times, no crocs or sandals allowed**
- report all injuries (no matter how small) to the instructor immediately
- do not disturb, distract, or in any way bother a student while they are operating a machine
- report all broken, inoperable, or suspicious-looking tools or machines to the instructor immediately
- never leave a machine running if you are not right by it
- no power tools are to be used if instructor is not present in the shop
- rags and paper towels that have been used to wipe stains, paints, solvents or oil must be placed in a metal fire proof container (in paint booth)
- must receive instructor's permission to leave the shop building for any reason
- no food and drinks are allowed in the shop during shop classes
- Any intentional damage to tools, equipment, other student's projects, or materials will result in suspension from the class, as well as paying for the damage.
- No project can be taken home until it is paid for and marked

I _____ understand and agree to follow all the rules and expectations for the construction/fabrication shop at Eagle Butte High School.

Student Signature: _____ Date: _____