

**Gilbert High School – Agricultural Engineering & Fabrication
Supply/Course Requirements**

Course Requirements – Course fee \$25.00

Project in the AG Eng. I Class- Spring: Avg. Cost is \$60 Ag Eng. II – Fall - \$60

Welcome to the fun and exciting world of agricultural welding, plumbing, landscape construction, project construction, and leadership development. In order to be successful, you must be willing to try everything and give 100%. This year you will have the opportunity to develop skills that will make you a better prepared, more competitive person when you enter the workforce.

Below you will find a list of required materials needed to be successful in our class. **Note - a locker and lock will be provided for use in this class only.** Students will not be allowed to work in the shop and lose daily points (which cannot be made up) for the following reasons: **wearing of shorts, short sleeved shirts, nylon/polyester clothing, open toed shoes, untied long hair or hair that inhibits safe work, loose or baggy clothing, or loose jewelry or chain and music or phone earpieces.** **Baggy/Droopy/Saggy as well as overly tight clothing is unsafe therefore is unacceptable in class. This includes pants that sag at or below one's waist as well as "skinny jeans" that don't come up to the waist. Exposed underwear means your pants are too low and unsafe in case one needs to move quickly or is working around moving equipment (get a belt/pull them up/buy pants that fit).**

Safety Clothing/Wear

1. **You must have one set of welding clothes and shoes kept in your locker.** All clothing should be 100% cotton, wool, welding/flame retardant material, or leather. Long pants, long sleeve shirts or coveralls (*not bib-overalls or short sleeved coveralls*) are required for all shop work. You can buy welding spats from a welding supply store. Do not bring clothes that are too big or too small.
 - 1a. The clothing must be at least 70% cotton, (it is best if they are 100%). Pants or coveralls cannot have holes or be baggy. Please do not use fabric softener on shop clothes as it makes them flammable. A shop coat is fine if the student is also wearing long pants underneath. (Long pants are considered to be those that start at or above the hip and reach the ankles *but do not drag the ground. They must not have frayed edges or large open pockets.*) Pants that must be held up while walking or working, continually pulled up or do not button are not allowed.
 - 1b. Closed toed shoes leather or synthetic. No nylon or polyester shoes.
 - 1c. A long sleeve cotton over garment. The shirt or jacket and sleeves must close (button, zipper, or velcro) all the way.
 - 1d. A welding cap must be worn to protect your head and hair from burns as well as no skin or hair contacting the shared equipment. Long hair must be tied back at all times.
2. Ear plugs must be worn during the project construction phase of the class, or any time the teacher determines it necessary.
3. Safety glasses are required at all times in the shop/lab. **Each student will be provided with 1 new pair of welding gloves and glasses to be kept in their locker.**
4. Welding helmets are provided as shared safety items. (Our welding supplier offers a safety package deal –safety glasses, welding gloves, and welding hat - for appx. \$20.00).
5. There is a required welding project for successful completion of the course, due before the last day of school. **The average price of a shop project is \$60.00.** Students may bring in their own metal (new or scrap) to reduce the cost of the project. The cost of the spring semester project lies with the student and parent – dependent on the student's choice of project.
6. No student will receive a passing grade if the project is not completed before the last scheduled day in the shop (**2 weeks prior to the last day of school**). No grade will be given on incomplete projects. Class fees are used for skill development steel and plumbing supplies.
7. FFA membership is included with enrollment at no charge to students. Membership entitles you to participate in all FFA activities, a bimonthly magazine, awards, scholarships, and field trips. Those that participate in the FFA have been more successful than those that didn't.