



AG 120 – Agricultural Engineering & Fabrication I

Ms. Bird

Room: 5008 Phone: 480-497-0177 ext 5008

taylor.bird@gilbertschools.net

Course Description - Students in this course will learn mig welding, arc welding, oxy-fuel cutting, plasma arc cutting, equipment operation, plumbing, cold metal, hot metal, and project construction skills. Students will learn to read working drawings and complete project plans. FFA activities and agricultural mechanics are emphasized. A Supervised Agricultural Experience is required. The purchase of project materials 2nd semester is the responsibility of the student/parent/guardian.

Competencies/Topics

1. Demonstrate personal and human relation skills.
2. Construct and maintain facilities and equipment.
3. Apply approved practices in using metalworking to construct facilities.

Grading - Students will earn points by written assignments, quizzes, tests, projects and hands on activities in the laboratory. Approximate point values are as follows:

Assignment	Percentage of Total Grade	Description
Laboratory work/Laboratory Projects	25%	A large portion of the grade is based on laboratory activities and projects. Proper preparation, punctuality, and participation will greatly affect the laboratory points.
Written assignments, quizzes, tests, article summaries, career reports	20%	Any assignment assigned within the class that is not within the class. Tests and quizzes will be given periodically covering content students are expected to know and understand.
Final	20%	Final is proctored at the end of the semester
Quarterly leadership	10%	The objective of the assignment is to encourage students to better themselves through active participation in extracurricular activities.
Supervised Agricultural Experience	10%	Students are required to conduct a Supervised Agricultural Experience (SAE). This is a work, research, or entrepreneurial project in agriculture. Students will keep records and be graded on completion and number of hours involved in the project each semester.
Employability	7.5%	Employability points include: being on time, attitude, attendance, being prepared for class, participating in class discussion, working with classmates, and clean up.
Interactive Notebook	7.5%	Students are required to maintain an interactive notebook to keep notes and store assignments. Notebook checks will be performed periodically.

Course Procedures:

Students are expected to dress appropriately for activities planned and work conducted. Safety procedures will be emphasized at all times.

Students that choose to not work in a safe manner will be removed from the work area and given written assignments due that day.

Students that are not dressed properly and/or show up late will lose daily points that cannot be made up. If a student falls behind in their skill development, work outside of class time will be necessary to get caught up and earn the appropriate grade.



A locker and lock is provided for students to store their personal work clothes.

Policies:

School policies for late assignments will be implemented. Incomplete assignments are not accepted.

- **Absences:** There are two types of absences: **excused and unexcused**. Excused absences will carry the same weight in implementing the policy. An **excused absence** only means that a student has the right to receive credit for make-up work.
 - o **Excused Absences** (May be one of the following):
 - **School related:** If a student misses a class for a school activity (i.e. field trip, counselor, etc.) he/she is not reported absent to the office, but is responsible for making up all missed work.
 - **Other excused absences:** An excused absence is one in which the parent has notified the school within 24 hours of the student's absence and the school administrator has approved the absence. When a parent knows that the student will be absent for more than one day, one phone call to the school will be sufficient.
 - o **Unexcused Absences:** An absence is considered unexcused if the school has not been notified within 24 hours of the student's absence. *Any student who has 10 consecutive unexcused absences from school may be withdrawn.*
 - o **Tardiness:** Any student entering the classroom AFTER the bell has rung, and who does NOT have a written excuse from a staff member or the administration, will be considered tardy. If a student arrives after 10 minutes, it will be recorded as an absence. A tardy may result in 9th hour (junior high only), parent conference or any other consequence deemed necessary by the administration.
- **Make Up Work:** When an absence is excused, students are allowed one day for each day absent to submit make-up work.

Class Supply List

- A 3-ring binder (available in class \$0.75 or bring your own)- to be kept in the classroom
- 6- glue sticks or 1 small bottle of Elmer's glue or glue dots
- 1- clear tape
- 1 box of 12 colored pencils
- 3- different colored highlighters
- 1- non-pointed pair of scissors (yes the little kid scissors are best)
- 1- 12 pack of multi-colored post-it type notes 3"x3"

See Also – Ag Engineering Course Requirements document

