

**Advanced Metal Fabrication  
Scottsbluff Public Schools  
Agriculture Department 2026**

**Teacher:** Mr. Held Plan Period 3

**Meeting Time:** Period 5, 8 11:35-12:20, 2:40-3:25

**Class Subject Areas:**

1. Shop and welding safety
2. Fire protection and safety
3. Careers in welding
4. Read and interpret blueprints
5. Routinely create industry quality welds quickly
6. Becoming an employee of a fabrication shop and being assessed accordingly
7. Dependability and reliability
8. Employability characteristics of a successful worker in the modern workplace.
9. Learn metal joining technology processes relating to assembly of equipment in agricultural mechanic operations.
10. Learn to meet deadlines and work with a customer on custom fabrications.
11. Work safely in a fabrication shop while working as a team.
12. Problem solving fabrication designs and construction errors.
13. Use metal fabrication tools such as grinders, drills, saws, shears, flap wheels and wire wheels.
14. Utilize CAD (computer aided drafting software) to program the Plasma cam.

The Advanced Metal Fabrication class should be one which allows students to gain further experiences in all welding systems. Students will improve their understanding of the procedures of welding and working in the industry. Class members will spend many hours performing a variety of metal working techniques. An understanding of electricity and its hazards will be incorporated into its role in welding. Students will also review developed blue prints and spend the semester assembling the product. This product will be marketed and sold within the community so the standards of welds should be of the highest degree. **Students who enroll in this course are eligible and encouraged to join FFA. If the student elects to join FFA, he/she will be eligible to participate in FFA contests and trips. Many of the class activities may be closely related to FFA but ALL Students are expected to participate in ALL class activities.**

**Instructional Strategies:**

All students will gain understanding of subject matter using a variety of instructional strategies. These strategies include; classroom lecture and activities, laboratory exercises, field trips, contest participation, research, discussion, videotapes and films, homework, individual and group presentations/demonstrations, and field exercises.

**Student assessment and grading:**

All students will be assessed in an equal and fair manner. Various types of assessments shall be used which include but are not limited to the following: tests, quizzes, worksheets, homework assignments, laboratory exercises and experiments, research projects and presentations, group discussions and debates. Students in this class will also have an “performance assessment” every two weeks. This is the same thing that industry will use to assess their employees. **This class will follow the district grading policy of 70/30, which**

equates to 70% of the students' grade will be from assessments and 30% from daily work. Assessments should be reworked toward mastery as long as it is done within a reasonable time (two weeks). These may be done during CATS, Lunch, before or after school and the students **MUST** make the initial contact to rework the assessment. Due to the nature of the class, students who are absent from class will be responsible for making up that day during another period or spending ½ of an hour before or after school with exceptions of free days or prior approval from the instructor. Each day a student will receive a maximum of 10 points: 2 for being there, 4 for being on time, 6 for being there on time and working progressively, and 9 for working hard and cleaning up, and 10 for working as expected in the lab.

### **SHS Class Period Attendance Policy**

Students who fail to attend a class without a parent/guardian contact within the first 48 hours of the absence occurring will be coded as a "No Contact," or "NC" within Infinite Campus. Students who accrue 15 "No Contact" absences within a single class period are in jeopardy of losing credit for their class.

Parents/guardians will receive a call from the school at 5, 10, and 15 days informing them of the "No Contact" absences. Once the student accrues 15 "No Contact" absences, the parent/guardian and student will be given the following options:

- The student may stay in the course for no credit, but they will be eligible for a credit recovery course upon completion of the in-person class.
- The student can elect to transfer immediately to an initial-credit online course.
- Or, the student may petition for the loss of credit and stay in the course if the student is passing or close to passing. This will require a meeting initiated by the student and parent/guardian with the counselor, teacher, and administration to develop an attendance plan requiring the student to attend all remaining class periods. The student will only be allowed to petition one time during a semester per course.

The grading scale will follow the school districts and will be as follows:

A= 100%-90%

B= 89%-80%

C= 79%-70%

D= 69%-60%

F= 59% and below

### **Sequence of Instruction:**

- Introduction and shop tour
- Expectations of quality of builds
- Interpreting blueprints
- Accurately using a tape measure
- Aulick tour/Interview
- Aulick builds

### **Academic Dishonesty**

Any student performing academic dishonesty will receive a zero on that particular assignment/activity. A second occurrence will result in a 10% decrease of the student's quarterly grade. Each occurrence thereafter will result in a 10% decrease of the student's grade per occurrence.

### **Attendance**

Attendance will be kept and the school attendance policy will be followed as outlined in the Scottsbluff Public Schools Student handbook. Tardy records will also be kept. A tardy will occur if any student will enter the **classroom** after the school bell has rung and up to **fifteen minutes** after the bell has rung. If a student enters the **classroom** after **fifteen minutes**, it will be recorded as an absence.

### **Extended leave policy**

[https://docs.google.com/document/d/1PDbg23bsZielRQrPqu4AIGkibD3JB5osF\\_OXP8k1o8w/edit?usp=sharing](https://docs.google.com/document/d/1PDbg23bsZielRQrPqu4AIGkibD3JB5osF_OXP8k1o8w/edit?usp=sharing)

### **Recommended Consumable Supplies Students should provide:**

All students will acquire a variety of instructional materials and handouts. Thus, each student is recommended to supply his/her own **\*\*1", three-ring notebook binder\*\***. **Loose-leaf lined paper** is also recommended and to be placed in the binder. The binders may be kept in cabinet in the classroom. A **writing utensil** is also required every day during class. Students are also suggested to bring coveralls or other clothing which may become dirty while working in the shop. Non-flammable materials should be considered in the selection of clothing for the welding class. **All students are required to provide their own Safety glasses which must be Z 87.1 approved. Each student must also provide gauntlet style leather welding gloves.** The school shall provide all other PPE required. The school will also provide any consumable supplies used in the shop; such as rod and gases. **\*\*If a student is unable to provide the above required, he/she needs to talk with the teacher and they may be barrowed for the year.**