



Welding 2

Class Syllabus



Instructor: Miss McFetridge

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Prerequisites: Welding 1

Course Description:

This course is designed for students interested in learning skills and safety related to working with metal using shielded-metal arc welding (SMAW), gas-metal arc welding (GMAW), oxy-acetylene (OA) welding and cutting, and tungsten inert gas welding (TIG) along with learning how to safely and effectively operate and use a variety of tools and machines in the metal shop.

- **Once students have met the safety requirements they are able to build their own projects. Please keep in mind if these projects are for personal use, students will be asked to pay for some of the metal due to the price increase of metal.**

Objectives/Essential Skills:

- ☐ Demonstrate proper safety procedures related to OA cutting and welding, arc welding equipment, metal grinders, & metalworking hand tools.
- ☐ Select appropriate welding rods and techniques for various compositions of metal.
- ☐ Demonstrate competent welding skills in SMAW, MIG and OA welding.
- ☐ Demonstrate competent cutting skills using OA equipment and the plasma cutter.
- ☐ Control metal distortions and other problems associated with welding metal.
- ☐ Identify various types of metal.
- ☐ Demonstrate their ability to weld in multiple welding positions such as; flat, horizontal, vertical and overhead.
- ☐ Demonstrate their ability to design a plan for a specific project.

Cell Phone Policy:

All personal electronics are expected to be put away and not in use for the duration of the class period. The teacher will ask all students to leave their personal electronics in the classroom while they are working in the metal shop. School guidelines regarding the cell phone policy can be found in the student handbook.

Google Classroom:

On the days you are not in the classroom, your work will be on Google Classroom. Since classroom time is limited, students are asked to complete their assignments in Google Classroom on their "off" days so they can proceed with learning in the metal shop when they are at school.

Tardy / Absence Policy:

- Regular and timely attendance is important for you to succeed. School guidelines on absences can be found in the student handbook. Although some tardies cannot be helped, if you are tardy, take your seat

quietly. If you have something to tell me about your tardy or absence, please do so during bell work or after class.

- Students will be given every opportunity to make-up work, provided the absence is excused. Students will be given one day for each day missed to turn in class assignments for full credit. It is the student's responsibility to find out if any work was missed during their absence.

Classroom Policies (Learning to Do, Doing to Learn, Earning to Live, Living to Serve)

➤ **Learning to Do** (*Active Participation*):

- Maintain a positive attitude.
- Active participation in all classroom activities.

➤ **Doing to Learn** (*Be Prepared to Learn*):

- Writing utensil (pen or pencil)
- Notebook
- Chromebook



➤ **Earning to Live** (*Classroom Behavior*):

- In the classroom everything is earned, including: grades and privileges.
- Be on time to class (you are tardy if you are not in your seat when the bell rings).
- Being honest at all times (cheating will not be tolerated).

➤ **Living to Serve** (*Respect & Leadership*):

- Be respectful and polite to peers, teachers and guests at all times.
- Respecting others, their property, their right to learn and respect yourself.

Grading Policies:

Grades are earned, not given!

1. Traditional A-F system based on points earned which are calculated into percentages and compared to this scale.

Percentage Scale: 100-90% = **A** 89-80% = **B** 79-70% = **C** 69-60% = **D** 59% or below = **F**

2. Points will be in the following categories:

Assignments/Projects: 45%

Daily Participation: 35%

Quizzes/Tests: 20%

- Grades are posted online and can be accessed at StudentVue or ParentVue.

Course Scope

- Metal Shop Safety
- Shielded Metal Arc Welding (SMAW)
- Gas-Metal Arc Welding (GMAW)
- Oxy-Acetylene Cutting and Welding
- Tungsten Inert Gas Welding (TIG)
- Plasma Cutting/CNC Table
- Tool & Equipment Safety
- Project Planning

The FFA Organization

FFA is an integral part of agricultural education and provides students with the opportunity to develop premier leadership skills, experience personal growth, and career success. It also provides students with an opportunity to

apply classroom concepts to challenging career development events. Participation in FFA is highly encouraged, but not required. If you are interested, please see Miss McFetridge for a membership application and information about how to get involved.

The instructor reserves the right to amend any part of the syllabus at any time during the trimester.

After each student and their parent(s)/guardian(s) have read the syllabus thoroughly, please detach this page and return it signed to Miss McFetridge by the next class period.

I have read and understand the policies and expectations of me in this course including that of the Burns Agriculture Department. I also understand my responsibility to my own learning and to that of others around me. I will work hard and maintain my integrity as part of this class, department and school. Lastly, I understand that in order to work in the shop, I will have to pass the safety test(s) with a 100%.

Student Signature

Parent/Guardian Signature