Ag Welding III

Course Objective: Students will refresh their skills in GMAW, SMAW, TIG, and OXY. Refreshing will require student to do joint welding of each process and then student will create two projects, one as a class and one of their own choosing. The skills learned will allow student to advance into careers in welding after high school.

All Students will be provided with a pair of safety glasses, welding gloves, welding helmet, welding jacket. If any of these items are lost or damaged they will have to replace the item that has been lost or damaged.

Students will also wear/bring a pair of boots for welding labs by the first week in February. They can be kept in the shop /welding room, and should be marked with your name.

Shorts may NOT be worn in the welding shop EVER!

Coveralls, welding jackets, long sleeves MUST be worn while welding. Clothing can be kept in the shop locker room as well, but should be marked with a name.

You will be responsible for covering the whole costs of your metal for your welding projects that you will be taking home. Projects need to be paid in full before you are able to start constructing your project.

Units of Instruction:

1. Review of Safety in the Welding Shop
2. FFA/ SAE
3. Drawing to scale
4. Review on GMAW, SMAW and TIG
    a. Review all types of welds lap, T weld, butt, corner, welding round pipes
5. Positions of welding
    a. Vertical up
    b. Vertical Down
6. Metal Signs
    a. You will be able to create a metal sign on the CNC plasma
7. Metal Cube
8. Individual Project Design and Construction
    a. Designing project
    b. Creating a supply list
    c. Putting project together

This class relates to the AFNR standards through learning about the different types of metal that we will use in the class. Students will learn how to build a shop table. Students will also learn how to read a blue print and create blue prints through using the software that is used in this class.

Shop Safety

All students must pass all safety tests with 100% and show me how to properly use the equipment before being able to use the equipment. I will go over all material and demonstrate on shop safety before the student uses the equipment.

Assessments:

-A unit test or project / demonstration will be given after each unit.

SUPPLIES NEEDED

- Writing utensil
- Folder
- Safety Glasses

CLASS POINTS

Every day in the welding shop you will be given 50 points for participation. This class is treated like you are on the job. If the instructor has to tell you to stay on task, remind you to put safety gear on, using equipment improperly, not being safe; you will lose a point each time you have to be reminded or warned.

PROJECTS

You will be able to make your own welding projects. You are responsible for covering the costs of your own projects. Any project that you choose to make needs to be completely approved by Mrs. Rupp. **If it is not on your plans you are not allowed to add it to your project without approval!** You are able to make any type of project with some restrictions. When deciding what type of project you are going to make you will have a total of 4 class periods to decide, design, and draw your project to scale. If you exceed the four days you will lose participation points. With every project that you make you will have 4 days to research and draw to scale.

CLASS WORK AND OTHER ASSIGNMENTS

Most assignments will be turned in on Schoology. If no specifications are given they may be hand-written or typed. All work that is hand-written must be neat and easily-readable. Work that is messy or poorly written may be given partial or zero credit at the teacher's discretion. Work that is typed must have 1-inch margins and be in size 12, Times New Roman font to receive full credit. In some instances, assignments may be turned in on a flash drive or attached in an email. No matter what "technical difficulties" you might encounter that would prevent you from making a due date, it is expected that you make any necessary arrangements in order to complete the assignment and turn it in on time.

- All assignments should include your full name, or the names of all group members, and hour at the top of the front page. **Points will be deducted for "no-name" assignments.**

- All assignments should be neatly written or typed (depending on the specifications), and should not include any spelling or grammatical errors.

LATE WORK & ABSENCES POLICY

All work is to be turned in on the day it is due for full credit. Each day an assignment is late, it is deducted by 10% of the total grade. For instance, on a 50 point assignment, 5 points (10%) will be deducted each day it is late, and so on. In the case of excused absences, students will be allowed each day it is late, and so on. In the case of excused absences, students will be allowed one for each day absent to make up work and turn it in for full credit. Therefore, if you are absent two days, you will have four days from the time you get back to make up any missing work.

If a student knows he or she is going to be gone, they must do the work ahead of time if at all possible. In the case of excused absences, students are **fully** responsible for obtaining the work they missed from the instructor, their classmates and/ or Schoology. Unexcused absences will receive partial or zero credit for any assignments on that day.

CHEATING

Cheating is defined as: using another student's work from a previous year or this year, copying another student's work, looking at another student's test, allowing another student to copy from your test or assignment, having access to any unapproved cheat sheet, talking or passing notes during tests, use of cell phone, text messaging, and copying/pasting work from the internet and other published material without citing sources.

Cheating on any assignment, quiz, or test will result in zero credit. Multiple offenses may warrant a meeting with the principal and/or other school officials and possible removal from the course.

EXTRA CREDIT

There are multiple ways you can earn extra credit throughout the year. Extra credit may only be done after all regular work and assignments are complete. These options may be in the form of worksheets, bringing science-related materials to class and sharing them, and other methods approved by the teacher. All extra credit will be added to the student's final grade at the end of each quarter. **Up to 5% of the total quarter grade may be earned in extra credit points.** However, students should not depend on extra credit to achieve their desired grade, rather focusing on work that has been assigned for regular credit!

FIELD TRIPS AND SPEAKERS**:**

If the need arises, we may be taking field trips to different places and having guest speakers periodically that will provide further insight to our topic of discussion. If students follow all rules and interact positively we will continue these experiences. If not, we will remain in class.

Your Goal: Stay ABOVE the Line!

ABOVE THE LINE BEHAVORS:

Listening to Teacher and Follow Directions
Respectful of Classmates
Help Others
Use Kind Words
Have a Positive Attitude
Do Quality Work and do it ON TIME
Clean up after yourself
Respectful of the classroom and learning materials
Be Prepared for Class Every Day
Backpacks on FLOOR and Hats OFF

BELOW THE LINE BEHAVIORS

Disrespectful Comments to Teacher or Students
Not Working to Full Potential
Having your Cell Phone Visible without Permission
Talking During Teacher Lessons
Negative Attitude
Not Following General School Rules
Hiding

FIX IT…OR CONSEQUENCE

BOTTOM LINE: OFF TO THE OFFICE

Crude, Sexual, Racial, Sexist, Threatening Comments
Swearing
Vandalism
Stealing
Fighting
Harassment of any type

PLEASE tear off syllabus and turn in to In-box for your Welding III class by _____.

I have read and understand the activities and requirements for this Course and understand above, below, and bottom line behaviors in the AFNR Classroom and consequences for not following the rules.

_____ _____

Students Signature Date

_____ _____

Parent/Guardian Signature Date