

CENTRAL HIGH SCHOOL

Ag Mechanics-Power & Welding

Toni Saso

COURSE SYLLABUS

Course Description:

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics and basic knowledge and skills in welding and metallurgy work. Instructional areas include the basic fundamentals of operating, maintaining, and repairing small gasoline engines, diagnosing engine malfunctions, operating agricultural equipment safely, welding, metallurgy terminology and techniques, cold metal working applications, and operating welding equipment safely. Students will receive instruction in theory as well as hands-on experience in the mechanics laboratory. Students will have the opportunity to be FFA members and participate in FFA activities. Prerequisite: Introduction to the Agricultural Industry Mechanics and Technology with a C or higher grade or approval of the Agriculture Instructor.

Course Objectives:

Upon the successful completion of this course, students will be able to:

- Properly set the regulators on an OxyActelyne Torch.
- Complete cuts with a torch.
- Know the safety and set up of a MIG Welder.
- Complete 3 MIG Welds.
- Complete a welding Project.
- Know Small Engine Parts & Tools.
- Teardown and rebuild a small engine.

Required Class Materials:

Paper	Binder	Calculator (recommended)
Writing Utensil	Flash drive or storage device	

Text: None

Course Outline:

Welding Safety	Welding Project
OxyActelyne Torch Cutting	Small Engine Parts
Arc welding Review	Small Engine Tools
MIG Welding	Small Engine Teardown & Rebuild

Major Assignments:

FFA Activity: 1 per semester

SAE Recordkeeping: Due at the end of each quarter

All welds will be due end of the first quarter.

Small engine must be rebuilt by the end of the second quarter.

Grading:

Skyward Name	Category	Weight
Tests	Assessments	35%
In-Class work	Assignments/Labs/Reports/Participation	50%
Homework	SAE & Recordkeeping	10%
Participation	FFA Participation	5%

Class Policies & Procedures:

1. Every student must act in a safe and responsible manner because of the many laboratory and classroom situations. You must demonstrate respect for the work of others. Failure to conduct your self in a safe manner will result in immediate discipline including, but not limited to: detentions, phone call home, parent/teacher/student conference.
2. The classroom and/or shop will be picked up and clean before any student may leave the room.
3. Appropriate dress (especially in the shop) is required at all times. In addition, safety glasses and closed toed shoes must be worn at all times while in the shop. NO EXCEPTIONS.
4. The shop is a privilege, not a right. If you can not act in a safe and responsible manner, you will be assigned book work and restricted from the shop.
5. Discipline for breaking the academic integrity code, student conduct responsibilities, and/or classroom expectations will be dealt with using the policy set forth by the Central High School Student Handbook.
6. As an inter-curricular club, FFA is an integral role of agriculture education. You are required to become a member of the Central FFA, and are required to attend 1 activity per quarter.
7. All assignments are due at the beginning of the period (when the tardy bell rings). If it is turned in after everyone else's assignments, IT'S LATE.
8. As per school policy, assignments may be turned in 1 day late for up to 75% credit. After that a zero will be assigned.
9. You have 2 school days to obtain and complete your assignments from an excused absence. You are responsible for obtaining missed work. I will not seek you out to give you missed work; you must check with me to see what you missed. Any work collected or assigned on the day of an unexcused absence will not be excepted.

Miscellaneous:

See Department Policies and Guidelines for out of class requirements for this course.

Instructor Contact:

Email: tsaso@cusd4.org

Phone: (815) 694-2321 Ext. 2113

Email is the quickest method to get a response. If you email and do not receive response within 24 hours, feel free to call.