



Agricultural Welding Syllabus 2021-2022

Teacher: Ms. Jessica Patterson
Room and Office: Front office, Woodshop or Ag Shop
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Course Description

The purpose of this course is to familiarize the student with Welding industry and how it applies to agricultural applications. Students will obtain knowledge through both classroom instruction and hands-on experiences that can be used towards a future career or hobby. Students will learn about the FFA and participate in chapter and district Career Development Events (CDE) where applicable.

Topics of study:

(but are not solely limited to)

1. Soft skills/Work habits
2. Welding industry standards
3. Measurement
4. Hand and Power Tools
5. Welding & Cutting -Oxy Acetylene, Arc, Plasma, and Mig Welding
6. CAD Operation and use of CNC machine

General Classroom/Laboratory Expectations

- I. **Safety:** Safety is a very important issue in this class.
- II. **Be Respectful**
- III. **Be Responsible**
- IV. **No Cell Phones/Electronic Device:** No electronic device/cell phone is being used in the classroom or shop. Cell phones need to be kept in backpack/bag. If it is difficult to follow this expectation, students will be asked to put phone in a basket at the beginning of the class and may pick it up at the end of the period.

*******Use of cell phones/electronic devices are a major safety hazard*******

Course Objectives

- Learn, demonstrate, and follow safe working procedures on all equipment both in and outside the shop
- Use, select tools/equipment correctly to complete any project
- Work cooperatively with co-workers to accomplish task
- Demonstrate welding and cutting skills- Oxy Acetylene, Arc, and Mig Welding, Plasma cutting
- Learn and demonstrate the use of CAD Machines
- Learn and demonstrate record keeping skills as it pertains to the welding industry using applicable math
- Develop and demonstrate everyday career soft skills (daily working habits)

Attendance

Attendance to class is important and will be used as a part of assessment grades on a weekly basis. If Absences occur regularly excused or unexcused it may result in a non-passing grade.

****No release of students will occur in the first or last 10 minutes of class! Please do not ask.****

1. Absences:

- Arrival to class 10 minutes after the bell rings is an absence.
- **All work for this class must be done in the school shop and there is limited time to make up for missed class time.**

Central Linn High School Common Syllabus and Grading Rubric

Grading Scale

Below is the grading rubric used by all classes taught at Central Linn High School for assessments:

Z= Assessment was not submitted

R=Assessment was received and being graded

0= incomplete, not enough evidence to assess

1= does not yet meet standard/learning target

2= nearly meets standard/learning target

3= meets standard/learning target

4= exceeds standard/learning target

In this system, there is no "extra credit"

In order display proficiency on a standard or learning target, a student must attain a **70%** or better on the assigned assessment, which is equivalent to a traditional 'C' grade. The traditional 'D' grades will no longer be awarded to student work. If an assessment is below a 70% score, the student will have the opportunity to retake the assessment and get additional support from the classroom teacher or building support services. If all or most standards are not met with passing scores within a grading period, a student may earn an 'F'. However, if a student is making adequate progress toward proficiency and utilizing available resources, students may be assigned an 'incomplete', as decided by the teacher.

FFA Membership

The Ag mechanics class is part of a complete Agriculture Science and Technology Program. FFA will be taught and participation encouraged according to the state curriculum. The National FFA Organization is the nation's largest youth leadership organization. The main focus of the FFA is to develop leadership traits in youth. The FFA is a vital organization at Central Linn High School. Students enrolled in agricultural classes are encouraged to become members of FFA. By becoming a member of the FFA students will be able to participate in contests, develop leadership skills, be eligible for many scholarships, and possibly qualify to receive a number of awards.

The Mission Statement of the Agricultural Science and Technology program at Central Linn High School is three fold:

1) CLASS Instruction in the classroom and laboratory is the beginning of an agriculture program. In this class, students will learn principles and skills related to the animal industry. This program will strive to provide an ethical, sound understanding of American Agriculture.

2) FFA In addition to the classroom atmosphere, students will be encouraged to join the FFA and participate in FFA activities and leadership opportunities. The FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success.

3) SAE Students can choose an area of interest in agriculture and have a project called a "Supervised Agricultural Experience." It can be as simple as caring for their lawn/garden or as complex as operating their own small business. It is their choice. Many students use the part time job they already have as their project as long as it can be related to agriculture. The SAE program provides students with hands on, real life, learning opportunities that will develop life skills and prepare them for a career.

(Keep syllabus in notebook for future reference)



Central Linn High School
Agricultural Welding
Syllabus 2021-2022
Signature Page

By signing below, I have read and understand all of the information given in the course syllabus including: Course description, Topics of study, Class Fee, General Classroom/Laboratory Expectations, Course objectives, Grading, Attendance and FFA Membership.

Students Printed Name

Date

Students Signature

Date

By signing below, I have read through the syllabus with my child/student and understand all of the information given in the course syllabus including: Course description, Topics of study, Class Fee, General Classroom/Laboratory Expectations, Course objectives, Grading, Attendance and FFA Membership.

Parent/Guardian Signature

Date

(Turn in this page, keep syllabus in notebook)

Safety Contract

Agricultural Education requires an expectation for safety. The focus of safety is for every one apart of the class, fellow students, teachers, aids, and others. The following are basic expectations for students in Agricultural Education:

I agree to:

1. Be prepared to work for the whole period by having necessary materials before class. I will not be allowed to go get these materials during lab time.
2. Pass the shop safety test with a 100% before I will be allowed to work in the lab.
3. Wear safety glasses at all times while in the shop. Wear welding helmet, oxy-acetylene goggles, and face shields when appropriate.
4. Wear gloves while handling hot metal, grinding, using machines, and all other activities that require protection for my hands.
5. Use courtesy in my work ethic by being aware of my surroundings when using equipment. I will allow other classmates to work in a safe environment. I will not horseplay with other classmates.
6. Maintain a 3' distance from others while in the shop or performing tasks.
7. Wear clean coveralls/shop coat that are free from frayed edges, grease, oil, or other flammable substances.
8. Make sure welds are cool to the touch before showing the instructor.
9. Follow individual safety procedures for all equipment, which will be given during the safety unit.
10. Report all accidents to instructor immediately.
11. Report any broken equipment or tools to instructor immediately.
12. Locate fire extinguishers before working in the shop.
13. Clean up spills immediately.
14. Keep electrical cords and welder leads free from walkways and other hazardous areas.
15. Be on task the entire class period.
16. Clean up my work area and other assigned areas before leaving work area. I will not clean up early.
17. Not leave class unless instructor permits.
18. Not vandalize or tamper with equipment and facilities.
19. Get permission from the instructor before starting a project. I will show a blueprint or drawing of the project and a bill of materials to the instructor.
20. Tie back long hair when needed for safety.
21. As jewelry can be a safety hazard in some situations, remove prior to activities.
22. Not horseplay, or distract others.
23. Understand that if I cannot adhere to these safety expectations, may face consequences including but not limited to, referrals, detention, and removal from all agricultural education classes.
24. Not use a cellular phone or any other electronic device during class or shop time for any reason.
25. Pay for or provide all materials before starting any "self" projects.

I have read, understand and agree to abide by the procedures for this class.

Name _____ Period _____

Student Signature _____

I have read and understand the information in this safety contract. I have also discussed the policies and procedures with my student.

Parent/Guardian Signature _____ Date _____

Home phone _____ Work/day phone _____

E-mail _____ Preferred Method of Contact: ___ Email ___ Phone

(Turn in this page, keep syllabus in notebook)