

WELDING I

COURSE OUTLINE

Description: Ag welding will allow students to gain hands on skills that will make them employable in the field of metal fabrication. Students will refine their skills in arc and mig welding and cutting with the oxyacetylene torch. There will be an opportunity to design plans for metal projects, calculate the cost of the project, and implement the project.

Length: 180 hours, 36 weeks

Grade(s): 10-12

Unit #/Week #	Unit Title/Topic
FFA Unit	Intro to FFA
Week 1	
Week 2	
Unit 1	Careers
Week 3	
Unit 2	Drafting
Week 4	
Unit 3	Safety
Week 5	
Week 6	
Unit 3	Oxyacetylene
Week 7	Skill welds
Week 8	Cutting
Unit 4	ARC Welding
Week 9	Skill Welds
Week 10	Skill Welds
Week 11	Scrap metal art
Unit 5	MIG Welding
Week 12	Skills
Week 13	Products to sell
Unit 6	Projects
Week 14	Group designs- welding table 1
Week 15	Cutting for welding table 1
Week 16	Welding for welding table 1
Week 17	Welding for welding table 1
	*Winter Break
FFA Unit	Record Book/SAE
Week 18	
Unit 6	Projects
Week 19	Group designs- welding table 2

Week 20	Cutting for welding table 2
Week 21	Welding for welding table 2
Week 22	Welding for welding table 2
Week 23	Begin Personal Project Drafting

*Every Monday will spent in the classroom doing shop math, reading drawings and symbols, and learning the processes of welding.

Grading: Grades will be entered weekly and will consist of a daily participation grade when in the shop, some homework and quizzes, tests, and projects.

PPE: Personal Protective Equipment. When working in the shop, all students must **wear long pants, long sleeved shirt, closed toed shoes, and safety glasses.** A locker will be provided for the storage of clothes. Safety glasses will be provided. Failure to have all PPE will result in assigned book work with the maximum daily points earned being a 50%.

Personal Days: This class is set up to mimic that of the workforce. Therefore, students are given 5 personal days a year to use at their discretion. This allows a student to miss five shop days without any make up work. Once a student has used all five days, to gain the points back, the student must come in from 3:35-4:00 to work in the shop.

Curriculum Applications for FFA Members:

Sept. 18- Greenhand Conference

Oct. 9- Dairy Judging CDE (Career Development Event)

Nov. 7- Horse Judging CDE

Nov. 14- Leadership School

Dec. 12- Public Speaking and Ag Mech. CDE

Feb. 15-22 National FFA Week

April 2- Livestock Judging CDE

April 9- Dairy Foods CDE

May 4-May 6 State CDEs

May 28-May 30 State Convention