

ELK GROVE HIGH SCHOOL AGRICULTURE DEPARTMENT

COURSE TITLE: Ag Mechanics: ROP Agricultural Welding

GRADE LEVEL: 11-12

INSTRUCTOR: Matt Rooney

CONTACT INFORMATION:

COURSE DESCRIPTION: ROP welding is an introductory course that covers the theory and techniques of operating Oxy-Fuel Welding and Cutting Equipment (OAW/OFC), Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), and Plasma Arc Cutting (PAC) equipment. The course also includes Power Sources, Joint Design, Welding Materials, Welding Symbols, Metallurgy, and Fabrication. This course articulates with Cosumnes River College Welding 100.

COURSE TEXTBOOK: Modern Welding: Althouse, Turnquist, Bowditch.

GRADING: The grading scale will be point-based, with the student receiving a letter grade (A-F) according to the percentage of possible points he or she attains.

100-90% =A 89-80%=B 79-70%=C 69-60%=D 59% and below = F

Points will be earned based on the following evaluation categories (approximations):

Projects: 40%
Participation: 40%
Assignments: 10%
Tests/Quizzes: 10%
FFA: 5% Extra Credit

Projects: This is a hands-on course. As such, students will be required to complete projects and welding assignments which will be evaluated by both the student and instructor. Emphasis will be on project quality. Students who wish to keep their projects must purchase the materials prior to beginning. Otherwise, projects will be provided by the department. Any projects unpaid for or left behind at the end of the year become the property of the Ag Department. Students are not permitted to construct projects which may be construed as weapons or as having any inappropriate content (gang, alcohol, drug related, etc.). In addition, no skate ramps or trailers will be allowed to be built in the Ag Shop (trailer rebuilds may be permitted with consent of the instructor). All projects must be authorized by the instructor.

Participation: Students are expected to work productively and safely EVERY DAY while remaining respectful of their teacher, fellow students, and shop/classroom equipment and materials. Poor attendance, tardiness, non-involvement, and negative citizenship will result in grade deficiencies and disciplinary action. Work missed due to excused absences can be made up. **Students who are safety hazards will be removed from the class.**

Assignments: A variety of written and oral classroom and homework assignments will be issued throughout the year. Late work will result in a 10% reduction in points for each day it is late. After two weeks, the student will receive a “zero” on the assignment.

Tests: Tests and quizzes will be given on class units throughout the year. A 100% on the safety test is required to work in the shop and participate in the class.

FFA: This is an Agriculture course. As such, students are automatically members of the FFA (Future Farmers of America). While participation in FFA activities is not a required component of the course, students will receive one percent extra credit for each FFA activity they participate in (up to 5). Students are also encouraged to bring in no-cost items that are useful to the shop, such as empty coffee cans or old, clean cotton t-shirts for use as rags. No other extra credit will be offered in this class.

Description of the FFA:

The FFA is a National Organization made up of nearly 500,000 members from all fifty states. The FFA’s mission is to make a positive difference in the lives of students by developing their potential for *premier leadership, personal growth, and career success* through agricultural education. The FFA includes classroom and laboratory instruction, the Supervised Agricultural Experience (SAE), and FFA activities, making up what are known as the three circles of agriculture education.

PERSONAL PROTECTIVE EQUIPMENT (PPE): All students will be issued safety glasses at the beginning of the year and expected to keep them throughout the year and wear them at all times in the shop. Lost safety glasses will result in a \$10 fine for replacement. Long hair must be pulled back into a pony tail with a device provided by the student. Coveralls and closed toed shoes are required for welding classes (welding caps or hats made from natural fibers are encouraged). Coveralls provide protection to both students and their school clothing. If there is a financial burden associated with the purchase of coveralls, arrangements can be made for the department to loan a pair to the student. Welding gloves, masks, and hoods will be provided by the department.

Assignment #1 25 points

Please detach & return the bottom portion of this form after reading the course syllabus and rules with your parents.

By signing this form the student and parent/guardian acknowledge the above grading policies, classroom rules, consequences, and general class requirements.

I have read the rules and syllabus for the Agriculture Shop class and agree to abide by them. I also understand that I am responsible for the outcome of this class.

Student Signature

Date

I have explained the rules of the Agriculture shop class to my parents and they fully understand the responsibility I have to do my work and participate.

Parent Signature

Date