

Dallas High School
Home of the Dragons
Ag Fabrication and Welding
2019-2020

Instructor: Ryan Rowley

Telephone: (503) 623-8336

Email:ryan.rowley@dsd2.org

Office Hours: By arrangement.

Prerequisite: Ag Mechanics

Course Description:

This course is designed for those students interested in a career in engineering and design, machine maintenance, and welding and fabrications. The course will focus on the areas of welding and metal working as well as project design. Students will utilize standard safe practices while using machinery and tools to create, refurbish, or design various projects.

Texts and Lab Manuals:

None Assigned

Course Outline: First Semester

	Unit Topic	Summative Assessment	Standards
Unit 1	Safety – Shop, tool, equipment	A safety portfolio to include safety exams for each piece of equipment and written proof of safe operational demonstration.	AG 02.01 Use oral and written communication skills AG 06.03 - Understand appropriate health and safety emergency procedures AG 06.02 - Identify health goals, emergency procedures for safety and first-aid
Unit 2	Welding SMAW, GMAW, OA (ARC, MIG, and oxyacetylene welding)	Practicum - welds	PST 04. - Plan, build and maintain agricultural structures
Unit 3	Oxyacetylene and plasma torch cutting	Practicum Provide evidence of proficiency	AG 10.02 - Use tools, equipment, machinery and technology PST 01. - Use physical science principles and engineering applications
Unit 4	Project design	Practicum and unit exam Provided detailed plans for and construct a project	PST 04. - Plan, build and maintain agricultural structures PST 01. - Use physical science principles and engineering applications with power, structural and technical systems to solve problems and improve performance.
Unit 5	Fabrication and restoration techniques	Practicum and demonstration of proficiency	PST 02. - Plan, operate, maintain and troubleshoot mechanical equipment, structures, biological systems, land treatment, power and technology. PST 03. - Service and repair mechanical equipment and power systems.
Unit 6	Coatings and finishes	Practicum and unit exam	PST 04. - Plan, build and maintain agricultural structures.

Standards to Be Assessed:

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

1. AG 02.01 - Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology.
2. AG 03.01 - Solve agriculture problems using critical thinking skills (e.g., analyze, synthesize and evaluate, independently and in teams).
3. AG 06.02 - Identify health goals, emergency procedures for safety and first-aid for agricultural workplaces and occupations
4. AG 06.03 - Understand appropriate health and safety emergency procedures for agricultural occupations.
5. AG 10.02 - Use tools, equipment, machinery and technology to work in areas related to agriculture.
6. PST 01. - Use physical science principles and engineering applications
7. PST 02. - Plan, operate, maintain and troubleshoot mechanical equipment, structures, biological systems, land treatment, power and technology.
8. PST 03. - Service and repair mechanical equipment and power systems.
9. PST 04. - Plan, build and maintain agricultural structures.
10. PST 05. - Apply technology principles in the use of agricultural technical systems.

Career Related Learning Standards: Career-related learning standards (CRLS) are fundamental skills essential for success in employment, college, family, and community life. We have integrated the Personal Management standard from the CRLS into all courses at DHS. **This standard will be assessed and communicated independent of the academic grade.** It is included below and mainly includes behaviors that will be assessed in this course.

- **Personal Management Standard:** Exhibit appropriate work ethic and behaviors in school, community and workplace.
 - Students will identify tasks that need to be done and initiate action to complete the tasks.
 - Students will plan, organize and complete projects and assigned tasks on time, meeting agreed upon standards of quality.
 - Students will take responsibility for decisions and actions and anticipate consequences of decisions and actions.
 - Students will maintain regular attendance and be on time daily.
 - Students will maintain appropriate interactions with colleagues.

Grading and Assessment:

Student's final grade for each course will be broken down into two categories:

- 1) **Academic:** based on assessments, tests, projects and performances that measure learning.
- 2) **Personal Management:** based on homework completion and other behaviors measuring the CRLS personal management standard.

The Final grade is calculated as follows: 75% of the course grade will be based on the Academic grade and 25% on the Personal Management grade.

- Any items included in the Academic grade (PA) may be retaken and the higher grade recorded. Teachers may extend the retake time period, but as a rule all retakes need to be done within **2 weeks** of the initial assessment.
- Students will complete extra preparation before retaking an assessment.
- Personal management work turned in late may be reduced by up to 50% credit.
- Retakes are not allowed on Personal Management assignments.
- Students must schedule performance retakes at their teacher's convenience. (Speech, drama, labs.)
- All projects must be completed within the Dallas High School AST program facility. You may not make up labs and or projects at home.
- You will be supplied sufficient materials for your assigned project, any project requiring additional materials beyond that which was originally supplied may result in additional fees.
- Should a student wish to design and build their a project of their choosing a set of plans complete with budget, blueprint/design schematics, cut list, tool and material list, as well as a calendar of work must first be submitted and approved by the instructor.
- If students wish to purchase their projects upon completion they may do so for the cost of the materials plus 10% to cover the cost of consumables such as glue, sand paper, etc. Student who choose to build projects of their own design must provide either the materials and or resources to purchase the materials prior to beginning construction.

Academic Integrity: We expect students to express academic integrity by doing their own work and properly documenting information gathered from other sources. Students who violate the principles of academic integrity will be subject to disciplinary consequences (see Insubordination section of the online student agenda).

Extra Credit: Extra credit is not offered, however students may be given additional opportunities to show mastery.

Tardies and Unexcused Absences:

- Tardies and Unexcused absences will be reflected in your Personal Management grade.
- 75% of your PM grade will be based on assignments, participation, and timeliness
- 25% of your PM grade will be based on being ON TIME, including attendance.
- For every Tardy, students will lose 10% of this grade.
- For every Unexcused Absence, students will lose 20% of this grade.
- There are no penalties for Excused Absences.

Extra Help: Students will have access to the Dallas Study Center, an area for students to retake tests, make up other work, or to complete study table hours for a coach. It will be staffed full time and available for students Monday-Friday. Students may access this during open periods and during Monday early release time, before all sports practices.

Bathroom/Hall Pass: No student will be allowed to leave the classroom in the first 10 minutes of class, or the last 10 minutes of class.

Parents/Guardians: Please sign this sheet, detach, and send back with your student. By signing this form, you acknowledge that you have read and fully understood the expectations, rules, and standards associated with Carpentry I. You also fully understand the need for complete cooperation from your student in a class of this size. Should you have questions, please call 503-623-8336 x 3212 or email using the email address provided in this document.

Please note that student grades and progress are available via the eschool access portal on our high school website. It is recommended that parents who wish to track their student's progress utilize this system to do so.

Cell Phones and Electronic Devices:

"Student Electronic Devices at Dallas High School: Upon entering the classroom, all students who are in possession of an electronic device are expected to deactivate the device and stow it away into Yondr pouches for the entire classroom period. The student is to remain in possession of their electronic device while in the Yondr pouch. If a student refuses to deactivate and stow the device away into a Yondr pouch, they will be referred to the main office for Dallas High School's disciplinary action. It is vital that all students comply with this policy to ensure an optimal learning environment."

Parents/Guardians: Please sign this sheet, detach, and send back with your student. By signing this form, you acknowledge that you have read and fully understood the expectations, rules, and standards associated with Carpentry I. You also fully understand the need for complete cooperation from your student in a class of this nature. Should you have questions, please call 503-623-8336 x 3212 or email using the email address provided in this document.

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DHS SHOP USER SAFETY AGREEMENT

I, _____ (printed name) the undersigned, a student in the Dallas High School Career and Technical Education Center, agree to follow all safety rules and procedures and agree to the statements below. I have:

- Successfully completed the Safety Orientation Unit.
- Had shop policies and procedures explained to me.
- Received demonstrations on all the major machines.
- Been instructed to ask for help on any machine with which I am not familiar.
- I will not operate any machine without such instruction.
- Received a pair of safety glasses.
- I will be responsible for wearing eye protection at all times in the shop facilities.
- I understand that there are certain risks associated with the use of this equipment and if I have any questions or think that a piece of equipment is not functioning properly, I will as the person in charge.

Additionally, I know that I must:

- dress appropriately for the shop and lab areas. (closed toed shoes, eye protection, etc.)
- Follow school policy regarding any and all other regulations to include: use of tobacco, foul language, etc.

Student Signature:

_____ Date: _____

Parent or Guardian

Name (Print) _____ Signature _____

Below please indicate the best method of contact as well as the best time to contact. (email, phone, etc.)

With the passage of senate bill 2444 all students enrolled in agricultural education course at Dallas High School will have paid membership in the National FFA Organization. Students have access to and are encouraged to participate at the level with which they feel comfortable. The FFA is a youth leadership organization that is dedicated to making a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education. If you have any questions please ask.