

Welding II & III

Mr. Hunter Smith, Welding II & III, WTTC

Overview: Welding is a course designed to familiarize students with the knowledge, skills, and career opportunities in the welding trade. Emphasis is placed on technical and practical applications of shielded metal arc welding, gas metal arc welding, and oxy fuel-acetylene cutting processes, as well as safety, weld testing, and the effects of welding heat on metals. This is a project based class where students are graded on real work place skills. Lastly, the primary goal of this course is to prepare students for pathway progression and AWS welding certification before graduation.

Expectations:

- Be Kind & Respectful
- Come Prepared
- Follow Directions
- Be responsible
- Participate

Materials:

- School Issued chromebook
- Writing Utensils & small spiral notebook
- Required PPE (Safety Glasses, Work Gloves, Welding Hood, Clothing, Work Boots)

Technology:

Cell phones & headphones will not be allowed in class or the shop. We will follow the code of conduct regarding these devices.

Disciplinary Procedures: Follows school disciplinary policies.

Grades & Assignments: Major grades - 60%; Minor grades - 40%

95% of the year is conducted in a shop real work setting. You are graded like you are at a real job. You must be present. You must be on time. You must do what you are expected to do. You must get along with other employees and your boss. I expect a honest day of work every day.

Personal Protective Equipment (PPE): To maintain personal safety and adherence to OSHA guidelines, students in welding are required to dress in PPE every day that we are in the shop. PPE consists of a cotton or FR shirt, denim or FR pants, and closed-toe shoes (Steel toe NOT required). Storage is limited, and it is up to the student to bring these items every day in a duffle bag. Welding helmets and OSHA-approved safety glasses will be provided, but students need to bring their own. Glasses and gloves will

Welding II & III

Mr. Hunter Smith, Welding II & III, WTTC

be checked out if needed. It is best for students to have their own safety glasses and gloves. Students will be held responsible for the cost of gloves and glasses if they are not checked back in (gloves \$15, glasses \$5).

Shop Safety: In this class, there will be interaction with tools that can cause harm and severe injuries if used improperly. Students will be taught lab safety and appropriate tool use before individual use in the shop. **All safety assessments must be completed with 100% accuracy to participate in the shop and use any tool.**

Failure to successfully pass safety exams will prohibit shop participation and result in course failure. By signing this syllabus, your student has permission, upon completing the safety quizzes, to use tools while wearing appropriate PPE in the shop appropriately. Furthermore, you acknowledge improper use of tools or inappropriate behavior can cause injuries and removal from the class. **Under no circumstances will there be any making of objects that look like weapons ie: knives, swords, dart guns, ect. If you are found to be making such items, discipline will follow school guidelines and shop privileges will be revoked.**

When in the shop, students must wear appropriate PPE at all times, including but not limited to long pants and sleeves, close-toed shoes, & safety glasses. Students will be able to make projects that they are interested in for themselves to take home. 1) Students must get permission. 2) Students will pay for one half of the material cost (or all material cost is selling project). 3) Student must designate who the project is for and who is paying for it. 4) Student will need to purchase additional supplies for their project like paint, wood, nuts/bolts ect...

Technical Dual Credit: This class is eligible for technical dual credit through Howard College. By completing an online or paper application and submitting the SAISD Technical DC commitment form, students are enrolled for technical dual credit. Upon successfully completing the CTE course, students will receive the technical dual credit designation on their high school transcript and their Howard College transcript.

Units of Study: The course outline below is in no particular order and is subject to change based on available resources and student progression.

Shop Safety: Personal safety equipment & safe operation of equipment.

Cutting Process: Oxy-fuel cutting torch & plasma cutting.

SMAW welding: Varied electrodes in all positions.

Welding II & III

Mr. Hunter Smith, Welding II & III, WTTC

GMAW welding: In all positions.

Weld Inspection & Testing Processes

Project Construction

Welding Symbols

Math for Welders

Welding Fabrication Projects

Employment Skills

Career Exploration

Project Fabrication

Parent/guardian (P/G) and student must read and initial each statement below:

Student	P/G	We acknowledge that we have read this syllabus and understand the rules and expectations of this course. Understand that Mr. Smith views this class as a real work scenario and the students grade will reflect their work efforts.
Student	P/G	We acknowledge that safe practices and behaviors, including PPE are required for the safety of myself at all times and a part of your overall grade.
Student	P/G	We acknowledge that phones must be turned off and out of sight during the school day. Ear buds and smart watches will also not be allowed. We will follow the code of conduct regarding these devices.
Student	P/G	We acknowledge that we must provide our own PPE (safety glasses, work gloves, and strongly recommend to have your own auto-darkening welding hood and tape measure. Items may be checked out for use if necessary but student will be charged \$15 for gloves and \$5 for glasses if they are not turned back in. We have welding hoods for general use if needed.

Welding II & III

Mr. Hunter Smith, Welding II & III, WTTC

Student

P/G

We acknowledge that this course is eligible for TDC and requires correct paperwork and successful course completion to receive dual credit upon completion.

By initialing above and signing below, my parent/guardian and I know, understand, and agree to the course expectations and requirements outlined in the attached syllabus.

Student Name (Print)

Parent / Guardian Name (Print)

Student Signature & Date

Parent / Guardian Signature & Date

Circle a preferred method of communication:

Phone Call

E-mail

Text

Other: _____

Preferred phone number/e-mail address for communication:

Print parents first and last names

Students name

School ID number

Cell number

Mr. Tye Hunter Smith

Welding II and Practicum, West Texas Training Center

tye.smith@saisd.org

(325) 659-3512

Conference Time: Monday-Friday 12:44-1:33

Welding II & III

Mr. Hunter Smith, Welding II & III, WTTC