***Mission: To offer inspiration through advanced instruction and authentic experiences.***

**Instructor:** Stephen Sanders

Email me at Stephen.Sanders@henry.k12.ga.us. Please allow 24 hours for a response.

Conferences can be scheduled via the counselors between 7:00 -7:45 am and 1:30-3:00.

**Architecture and Construction Career Cluster- AC-W1**

This course is designed to provide students with the basic knowledge and safe operating skills needed to demonstrate proper set of equipment in oxyfuel, shielded metal arc welding (SMAW), and gas metal arc welding (GMAW). The students will perform oxyfuel cuts using acetylene and propane gases. The students will select electrodes and performs welds using SMAW and GMAW to current industry standards. Welding symbols will be used to interpret detailed drawing used for fabrication. American Welding Society codes will be used to determine the soundness of welds. Minimum performance requirements for this course are based on successful student completion according to the American Welding Society (AWS) and the National Center for Construction Education and Research Center (NCCER) standards. Students who successfully complete the course in accordance with NCCER standards are eligible for registration with the NCCER National Craft Worker Registry. The prerequisite for this course is Introduction of Metals.

**Course Objectives**

AAS associates will

* Demonstrate employability skills required by business and industry.
* Demonstrate proficiency in Arc Welding & Oxyfuel Safety.
* Identify and use oxyfuel cutting equipment with acetylene and alternate fuels (propane)
* Identify and use welding symbols and read detailed drawings.
* Identify and explain welding procedures and testing.
* Demonstrate knowledge of basic shielded metal arc welding (SMAW).Standard 6
* Demonstrate knowledge of basic shielded metal arc welding (SMAW). Demonstrate setting up of equipment for gas metal arc welding (GMAW).Standard 7
* Demonstrate knowledge of plasma arc cutting.
* Examine how SkillsUSA is a co-curricular part of career and technical education through leadership development, school and community service projects, and competitive event

| **Required Supplies** |
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| * ● Fully charged Chromebook * ● Chromebook charger * ● 3-ring binder / Notebook * ● Welding Helmet * ● Safety Glasses * ● Work Gloves * ● Welding Gloves * ● Pencil /Caulk * ● Welding Clothing/boot/steel toe/Hat-Head covering Long pants-Coveralls * ● Hair-Tie or band * ● Lock-for locker |

| **Expectations for Academic Success** |
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| * ● Attend class daily. * ● Be prepared for class. * ● Respect yourself and others. * ● Ask questions. * ● Contribute new ideas. * ● Work hard, and give your best effort. * ● Be Prompt |

**Grade Calculation**

| **Summative Assessments = 40%** | **Formative Assessments = 40%** |
| --- | --- |
| ● Authentic learning projects, exams, presentations, essays, labs | ● Practice Work: classwork, homework, quizzes, labs, employability skills |
| **Culminating Final Exam/Project** | |
| All courses will have a culminating exam or project that assesses associate learning of the semester’s course content. This exam/project will be 20% of the overall course grade. | |

**Make-up Work**

Associates who are absent are required to contact the instructor for make-up work. The associate will have the same number of days that they are absent to complete the make-up work.

**Late Work Policy**

Identify your late work policy. How will you deal with assignments when associates want to submit work from August in November? Please come to a consensus within your department/subject area.

**Employability/Soft Skills**

School Wide Activities:

* ● Dress for Success Days
* ● Network Luncheon
* ● Mock Interviews

*The dates for the activities will be provided by the Admin. Team.*

**Career and Technical Student Organization [CTSOs]**

In addition to course integration, we will have a once-per-month activity schedule where associates will have an opportunity to participate in their CTSOs. What can associates and their parents expect will occur during this time? In what competitions can associates participate?

I understand and acknowledge that I read the syllabus and agree to all of its terms and conditions.

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Print Student Name

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Student Signature

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Print Parent Name

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Parent Signature