

Cocke County High School

***Welding 5**

***2025/2026 Syllabus**

Part 1: Course Information

Instructor Information

Instructor: Kimberly Huskey

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Welding II is designed to provide students with opportunities to effectively perform cutting and welding applications of increasingly complexity used in the advanced manufacturing industry. Proficient students will build on the knowledge and skills of the Welding I course and apply them in novel environments, while learning additional welding techniques not covered in

previous courses. Specifically, students will be proficient in (1) fundamental safety practices in welding (2) gas metal arc welding (GMAW), (3) flux cored arc welding (FCAW), (4) gas tungsten arc welding (GTAW), and (5) quality control methods. Upon completion of the welding II course, proficient students will be eligible to complete the American Welding Society (AWS) Entry Welder qualification and certification.

Prerequisite

- Students have to complete Principles of Manufacturing, Welding 1, to be eligible to participate in a Welding II class.

General Education/High School Pathway Area

Upon completion of this course, proficient students will advance from this course with a nuanced understanding of how manufacturing combines design and engineering, materials science, process technology, and quality. Upon completion of the Principles of Manufacturing course, Welding 1 and Welding 2, students will be prepared to make an informed decision regarding which Advanced Manufacturing program of study to pursue.

Textbook & Course Materials

Required Text

- Miller Openbook curriculum.

Course Requirements

- Internet connection (DSL, LAN, or cable connection desirable)
- Access to /Web site/Other
- Pencil, Paper, Notebook
- Long Pants, Leather Boots

Course Structure

The class will be delivered by lecture, discussion, activity, lab-based, test, groups, homework, and classwork.

Part 2: Student Learning Outcomes

*Expected student learning outcome for this course. The student learning outcomes for each course can be found in the Tennessee State Standards, course pacing guide, and other resources pertaining to your course. These can be found on TN. Gov under Academic Standards.

A bulleted list is a good way to display these objectives as shown below:

- Safety
- Understand thermal properties and tensile strength
- Being able to measure welds

You will meet the objectives listed above through a combination of the following activities in this course:

*Most objectives will be met through 1) Classwork, 2) Homework, 3) Test,) 4 Groups. Students will be provided dates to complete assignments. If a student is absent and it is excused the student will be allowed 3 days to make up any missed work.

***Welding 5**

***2025/2026 Syllabus**

Part 3: Welding 5/Topics Covered

Semester 1

Week	Topic	Readings/	Activities	Due Date
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		Resources		
1	Safety/Test	PowerPoint	Test	Aug.
2	Safety	Lecture	Notes	Aug.
3	History	Lecture	Notes	Aug.
4	Careers	Lecture	Notes	Aug.
5	Blueprints	Lecture	Notes	Sept.
6	Welding Design	Lecture	Notes	Sept.
7	Metal Welding	Lecture	Notes	Sept.
8	AWS-Class	Lecture	Notes	Sept.
9	AWS-Flat	Lecture	Notes	Sept.
10	AWS-Horiz.	Lecture	Notes	Oct.
11	AWS-Vertical	Lecture	Notes	Oct.

12	AWS-Overhead	Lecture	Notes	Oct.
13	Thermal	Lecture	Notes	Nov.
14	Tensile Strength	Lecture	Notes	Nov.
15	Ductility	Lecture	Notes	Nov.
16	Quality Control	Lecture	Notes	Dec.
17	QC Stand.	Lecture	Notes	Dec.
18	Sem. Exam	Lecture	Notes/Test	Dec

Semester 2

Week	Topic	Readings/ Resources	Activities	Due Date
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1	Safety/Test	PowerPoint	Test	Jan.
2	Safety	Lecture	Notes	Jan.
3	History	Lecture	Notes	Jan.
4	Careers	Lecture	Notes	Jan.
5	Blueprints	Lecture	Notes	Feb.
6	Welding Design	Lecture	Notes	Feb.
7	Metal Welding	Lecture	Notes	Feb.
8	AWS-Class	Lecture	Notes	Feb.
9	AWS-Flat	Lecture	Notes	Mar.
10	AWS-Horiz.	Lecture	Notes	Mar.
11	AWS-Vertical	Lecture	Notes	Mar.

12	AWS-Overhead	Lecture	Notes	Apr.
13	Thermal	Lecture	Notes	Apr.
14	Tensile Strength	Lecture	Notes	Apr.
15	Ductility	Lecture	Notes	May
16	Quality Control	Lecture	Notes	May
17	QC Stand.	Lecture	Notes	May
18	Sem. Exam	Lecture	Notes	May

***Calendar/Schedule: The class schedule maybe subject to change if school is cancelled due to snow or any unforeseen circumstances such as school scheduling which may arise during the school year. If you have any questions pertaining to the schedule you may reach the instructor with the above email for further questions.**

This class has a semester exam.

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***Welding 5**

***2025/2026 Syllabus**

Part 4: Grading Policy

Graded Course Activities

Assignments for details about each assignment listed below.

1st 9 Weeks	
Points	Description

*# 100%	*Homework, Classwork, Test, Groups, Absenteeism, Projects will determine students grade.
2nd 9 Weeks	
Points	Description
*# 100%	*Homework, Classwork, Test, Groups, Absenteeism, Projects will determine students grade.
3rd 9 Weeks	
Points	Description

*100%	*Homework, Classwork, Test, Groups, Absenteeism, Projects will determine students grade.
4th 9 Weeks	
Points	Description
*100%	*Homework, Classwork, Test, Groups, Absenteeism, Projects will determine students grade.

Late Work Policy

- * Be sure to pay close attention to deadlines—there will be no makeup assignments or test, or late work accepted without a serious and compelling reason and instructor approval.

Viewing Grades in ASPEN (optional)

Points you receive for graded activities will be posted to the ASPEN Grade Book. Click on the My Grades link on the left navigation to view your points.

* Your instructor will update the online grades each time a grading session has been complete—typically 2 days following the completion of an activity. You will see a visual indication of new grades posted on your ASPEN home page under the link to this course.

Letter Grade Assignment

* Final grades assigned for this course will be based on the percentage of total points earned and are assigned as follows:

100% of Participation

Grading Scale:

A = 93 -100

B = 85 - 92

C = 75 – 84

D = 70 – 74

F = 0 – 69

I = Incomplete

X = No Credit

***Cocke County High School**

***Welding 5**

***2025/2026 Syllabus**

Part 5: Course Policies

Attend Class

Students are expected to attend all class sessions as listed on the course calendar.

- If a student has chronic absenteeism it may affect their grades. If a student has an excused absence, he/she will be allowed to make up their work.

Participate

- Students score for participation will be monitored by the work they turn in; grades will be posted to the ASPEN account for all assignments graded.

Build Rapport

If you find that you have any trouble keeping up with assignments or other aspects of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships

are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that they can help you find a solution.

Complete Assignments

Assignments must be submitted by the given deadline or special permission must be requested from instructor *before the due date*. Extensions will not be given beyond the next assignment except under extreme circumstances. Late or missing discussion assignments will affect the student's grade.

Incomplete Policy

Under emergency/special circumstances, students may petition for an incomplete grade. An incomplete will only be assigned upon approval by the principal and timeframe will be determined.

Academic Dishonesty Policy

1. Academic dishonesty includes such things as cheating, inventing false information or citations, plagiarism and helping someone else commit an act of academic dishonesty.
2. Course instructors have the initial responsibility for detecting and dealing with academic dishonesty. Instructors who believe that an act of academic dishonesty has occurred are obligated to discuss the matter with the student(s) involved. Instructors should possess reasonable evidence of academic dishonesty. However, if circumstances prevent consultation with student(s), instructors may take whatever action (subject to student appeal) they deem appropriate.
3. If an instructor finds the student to be guilty of academic dishonesty the student will be given a 0-F for the grade of the assignment.