

Welding

A Middle College Program at York Technical College



For Students Who Enjoy

- working with their hands
- outdoors
- using hand and power tools

Possible Careers

Welder (Gas or Arc)

Mechanic

Machine Tool Technician

Courses Offered by Clover High School
however taught on the York Technical
College Campus (transportation provided)

(course descriptions can be found on the back)

Arc Welding 1
Arc Welding 2
Welding & Cutting
Advanced Inert Gas Welding
Tungston Arc Welding

The CHS welding program is a component of the Middle College program. All welding classes are taught on the York Technical College (YTC) campus. Transportation to and from YTC will be provided by Clover School District transportation. Students are responsible for purchasing their own welding tools (safety glasses, helmet, gloves, textbooks, chipping hammer, 4 ½ inch angle grinder, files, etc.) and tool bag in which to carry them. Go to <http://www.yorktech.edu/search/?searchtext=welding+tool+list> and click on “welding tools” for a more complete list. Students may earn Basic Welding Certification through York Tech. Enrollment into the welding program includes the five welding courses listed below.

Basic Welding
Certification

Course Descriptions

Arc Welding 1 (Welding 111) – 1 unit – Grades 11-12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Enrollment subject to SC high school diploma progress, York Technical college application, and a successful placement assessment score (3.0 high school GPA, Accuplacer, SAT/ACT).

This course covers safety, equipment, and skills used in the shielded metal arc welding process. Upon successful completion, the student should be competent to produce quality fillet welds on carbon steel using the shielded metal arc welding process in the following positions: flat, horizontal, vertical, and overhead. Welds produced by the student will be evaluated by the instructor. Students will be required to purchase their own helmets, gloves, and other related equipment. **The course is taught at York Technical College only; students will be provided Clover District transportation to and from classes. [635100EW]**

Arc Welding 2 (Welding 113) – 1 unit – Grades 11-12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Arc Welding 111.

This course covers safety, equipment, and skills used in the arc welding process of ferrous and/or non-ferrous metals. Upon completion of the course the student should be able to produce quality vee groove weld joints on carbon steel plate using the shielded metal arc process in the following positions: Flat position, Horizontal position, Vertical position, and Overhead position. Welds produced by the student will be evaluated by the instructor. Students will be required to purchase their own helmets, gloves, and other related equipment. **The course is taught at York Technical College only; students will be provided Clover District transportation to and from classes. [635200EW]**

Welding and Cutting (Welding 104) – .5 unit – Grades 11-12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Arc Welding 111 and 113.

This course covers safety and skills related to gas welding, brazing, soldering, and cutting of metals. Upon successful completion of the course students should master the following competencies: OxyFuel Cutting, OxyFuel Welding, OxyFuel Welding – Butt Joint with Filler Rod, OxyFuel Welding – Lap Joint with Filler Rod, OxyFuel Welding – Tee Joint with Filler Rod, and OxyFuel Welding – Corner Joint with Filler Rod. Students will be required to purchase their own helmets, gloves, and other related equipment. **The course is taught at York Technical College only; students will be provided Clover District transportation to and from classes. [835100EH]**

Advanced Inert Gas Welding (Welding 136) – .5 unit – Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Welding and Cutting 104.

This course covers the techniques for all positions of welding ferrous (stainless steel) and nonferrous metals. The student will learn how to produce quality gas metal arc welds for Butt, Lap, and Tee joints in the following positions: flat, vertical, horizontal, and overhead. Welds produced by the student will be evaluated by the instructor. Students will be required to purchase their own helmets, gloves, and other related equipment. **The course is taught at York Technical College only; students will be provided Clover District transportation to and from classes. [835200EH]**

Tungsten Arc Welding (Welding 152)-1 unit—Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Welding and Cutting 104.

This course covers gas tungsten arc welding of carbon steel filler metal and carbon steel metals with stainless steel filler metals. **The course is taught at York Technical College only; students will be provided Clover District transportation to and from classes.**