

COMPLETER: Welding Technology**CREDITS: 6**

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	❖AP Language and Composition	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I (1)	Geometry (1)	Algebra II (1)	Higher Level Math (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Welding Technology I (3)	Welding Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied) 8 credits possible per year	❖Recommended AP Connections: AP Calculus AB (1), AP Physics I (1) Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. 11 (.5-1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Managing Personal Finances Using Excel (1), Internship (.5-1)			
Value Added: From:	Up to 1 year toward Apprenticeship Associate Builders & Contractors		American Welding Society (AWS) Certification	
End of Program Test: Industry: Taken:	NCCT Academic Core v2 National Center for Construction Education and Research (NCCER) At the end of Welding I		NCCT Academic Welding National Center for Construction Education and Research (NCCER) At the end of Welding II	

**WELDING TECHNOLOGY** – Six Credit Completer**WELDING TECHNOLOGY**

Course: 559037-I (Articulated) 3 credits
559137-II (Articulated) 3 credits

This program is a study and application of the process in which metal is melted and fused together by heat producing methods. The program is designed to train students in the basic knowledge and skills of the welding trade. Instruction will focus on using oxyacetylene, electric arc, TIG (Tungsten Inert Gas), MIG (Metal Inert Gas), and CNC (Computer Numerically Controlled) robotic plasma cutting equipment. Brazing, soldering, cutting, hard surfacing, and job fabrication from sketches and blueprints are covered. Individual and group projects are undertaken.

Prerequisites and other notes: These courses are part of the Welding Technology completer program. Students are required to pass the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills to achieve Level II status in construction programs. At the end of Level II, students will take the American Welding Society (AWS) certification tests.