



Highlands P-TECH Welding Crosswalk 2024-2025



Program of Study	IHE Partner	Expected Program Student Outcomes	
Welding	Alamo College District: St. Philip's College	Year 4: Entry-Level Certificate	Welding Entry-Level, Certificate I
		Year 4-5: Level 1 Certificate	Inert Gas GTAW/GMAW Welder (MSGW) Structural/Pipe Layout
		Year 5: Associate of Applied Science (A.A.S.)	Welder/Welding Technologist


Year / Grade Level	High School Course				Post-Secondary Course		
	PEIMS Course #	High School Course Name	High School Credits	Texas Common Course Numbering System Number	College Course Name	College Credit Hours	TSI & Pre-requisite requirements
Year 0 / Grade 8		Required Summer Bridge					
Total Year 0 High School Credits			0.0	Total Year 0 College Credit Hours			0.0
Year 1 / Grade 9		English I or English I HON	1.0				
		Algebra 1 or Algebra 2 HON	1.0				
		Environmental Systems or Biology HON	1.0				
		World Geography or Human Geography AP	1.0				
		LOTE- Spanish I/II or ASL I/II	1.0				
		AVID I	1.0				
		PE or Phys Ed Elective	1.0				
	P-TECH Robotics 1	1.0					
Total Year 1 High School Credits			8.0	Total Year 1 College Credit Hours			0.0
Year 2 / Grade 10	<p>It is highly recommended that all P-TECH student complete Algebra I, Algebra II, and Geometry by the end of 10th grade. Students can take two math classes in 10th grade if they did not take Algebra I in middle school. SAISD Flex HS is also available for online evening classes to complete credits for HS graduation requirements.</p>						
		English II or English II HON	1.0				
		Algebra 2 and/or Geometry HON	1.0				
		Biology or Chemistry HON	1.0				
		World History or AP World History	1.0				
		LOTE- Spanish I/II or ASL I/II or PE/Elective	1.0				
		AVID II	1.0				
		Introduction to Welding DC	1.0	WLDG 1313	Intro to Blueprint Reading for Welders	3	
		Diversified Manufacturing I DC	1.0	WLDG 1425	Intro to Oxy-Fuel Welding and Cutting	4	
Total Year 2 High School Credits			8.0	Total Year 2 College Credit Hours			7.0



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Year / Grade Level	High School Course				Post-Secondary Course		
	PEIMS Course #	High School Course Name	High School Credits	Texas Common Course Numbering System Number	College Course Name	College Credit Hours	TSI & Pre-requisite requirements
Year 3/ Grade 11		English III or <i>English III DC</i>	1.0	ENGL 1301	Composition I	3	COLLEGE LEVEL ENGLISH
		Geometry or <i>Algebra II DC</i>	1.0	MATH 1314/1332	College Algebra or Contemporary Math	3	COLLEGE LEVEL MATH
		Chemistry or Chemistry OnRamps	1.0				
		US History or AP US History	1.0				
		LOTE/PE or Elective	1.0				
		AVID III	1.0				
		<i>Welding 1 DC</i>	2.0	WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4	Co-req. WLDG 1425
			WLDG 1317	Introduction to Layout and Fabrication	3	Co-req. WLDG 1313 & WLDG 1428	
Total Year 3 High School Credits			8.0	Total Year 3 College Credit Hours		13.0	
Year 4/ Grade 12		English IV or English IV AP Literature	1.0				
		Pre-Calculus or Other Math	1.0				
		Science or <i>Physics I DC</i>	1.0	PHYS 1305	Introductory Physics	3	COLLEGE LEVEL MATH
		Government and Economics	1.0				
		<i>Art or Music Appreciation DC</i>	1.0	ARTS 1301/1306	Art or Music Appreciation	3	None
		<i>Extended Practicum in Manufacturing DC</i>	3.0	WLDG 1430	Intro to Gas Metal Arc Welding (GMAW)	4	Co-req WLDG 1425
			WLDG 1434	Intro to Gas Tungsten Arc Welding (GTAW)	4	WLDG 1425	
Total Year 4 High School Credits			8.0	Total Year 4 College Credit Hours		14.0	
Total High School Credits			32.0	Total College Credit Hours		34.0	
High School Graduation Ceremony				Welding Entry-Level, Certificate I			

Year / Grade Level	High School Course				Post-Secondary Course			
	PEIMS Course #	High School Course Name	High School Credits	Texas Common Course Numbering System Number	College Course Name	College Credit Hours	TSI & Pre-requisite requirements	
Year 5/ Grade 13		No high school credit awarded during Year 5. Student reports to college campus only. Student must utilize Financial Aid process – FAFSA and Alamo Promise.			Additional Welding Courses Core Subject Courses Required for AAS Degree Internships/Workforce Entry			
Visit the St. Philip's College Welding website for additional information on degrees and certificates. http://tinyurl.com/47uw5zem						Total Year 4 College Credit Hours		TBD
						Total College Credit Hours		TBD
				Level 2 Certificates and/or A.A.S Degree				
				<i>* Certificates and Degrees awarded will vary based on student academic performance, course selection, and persistence in college degree plans</i>				