



# Highlands P-TECH Welding Crosswalk



ALAMO COLLEGES DISTRICT  
St. Philip's College

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

Year / Grade Level	High School Course			Post-Secondary Course			
	PEIMS Course/ Code #	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		Summer Bridge/TSI Boot Camp					
Year 1 / Grade 9		English I Pre- AP	1.0				
Year 1 / Grade 9		Algebra 1 or Geometry Pre-AP	1.0				
Year 1 / Grade 9		Biology Pre-AP	1.0				
Year 1 / Grade 9		World Geography or AP Human Geography	1.0				
Year 1 / Grade 9		LOTE- Spanish I/Spanish II/ ASL I	1.0				
Year 1 / Grade 9		AVID I	1.0				
Year 1 / Grade 9		Applied Mathematics for Technical Professionals	1.0				
Year 1 / Grade 9		Introduction to Welding DC	1.0	WLDG 1313	Intro to Blueprint Reading for Welders	3	None
SUMMER		Summer Bridge PE	1.0				
<b>Total Year 1 High School Credits</b>			<b>9.0</b>	<b>Total Year 1 College Credit Hours</b>		<b>3.0</b>	
Year 2/ Grade 10		English II Pre- AP	1.0				
Year 2/ Grade 10		Geometry Pre-AP or Algebra 2 DC	1.0	MATH 1314	College Algebra	3	COLLEGE LEVEL MATH
Year 2/ Grade 10		Chemistry Pre-AP	1.0				
Year 2/ Grade 10		LOTE- Spanish II/Spanish III/ASL II or Elective	1.0				
Year 2/ Grade 10		AVID II	1.0				
Year 2/ Grade 10		Art/Music Appreciation DC	0.5	ARTS 1301/ MUSI 1306	Art/Music Appreciation	3	TSI R/W 310
Year 2/ Grade 10		Academic Mentoring	0.5				
Year 2/ Grade 10		Welding I DC	2.0	WLDG 1425	Intro to Oxy-Fuel Welding and Cutting	4	None
				WLDG 1428	Intro to Shielded Metal Arc Welding (SMAW)	4	None
SUMMER		World History	1.0				
SUMMER		Welding II DC	2.0	WLDG 1430	Intro to Gas Metal Arc Welding (GMAW)	4	Pre-req. WLDG 1425
<b>Total Year 2 High School Credits</b>			<b>11.0</b>	<b>Total Year 2 College Credit Hours</b>		<b>15.0</b>	

\*\*\*Current as of 04-01-2021. All crosswalks are updated yearly and are subject to change based on degree plans and course offerings at both institutions.\*\*\*



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	PEIMS Course/ Code #	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		Science	1.0				
Year 3/ Grade 11		US History	1.0				
Year 3/ Grade 11		English III DC	1.0	ENGL 1301	Composition I	3	COLLEGE LEVEL ENGLISH
Year 3/ Grade 11		Algebra 2 DC or Pre-Calculus	1.0	MATH 1314	College Algebra	3	COLLEGE LEVEL MATH
Year 3/ Grade 11		Welding II Lab DC	3.0	WLDG 1317	Intro to Layout and Fabrication	3	Pre-req. WLDG 1425 / Co-req. WLDG 1313 & WLDG 1428
				WLDG 1434	Intro to Gas Tungsten Arc (GTAW) Welding	4	Pre-req. WLDG 1425
Year 3/ Grade 11		Precision Metal Manufacturing I DC	2.0	WLDG 2451	Advanced Gas Tungsten Arc (GTAW) Welding	4	Pre-req. WLDG 1434
				WLDG 2452	Advanced Flux Cored Arc Welding	4	Pre-req. WLDG 1430
<b>Total Year 3 High School Credits</b>			<b>9.0</b>	<b>Total Year 3 College Credit Hours</b>		<b>21.0</b>	
Year 4/ Grade 12		English IV	1.0				
Year 4/ Grade 12		Pre-Calculus or Calculus	1.0				
Year 4/ Grade 12		Physics DC	1.0	PHYS 1305	Introductory Physics I Lecture	3	COLLEGE LEVEL ENGLISH & MATH
Year 4/ Grade 12		Government / Economics DC	1.0	ECON 1301	Intro to Economics	3	TSI R/W 310
Year 4/ Grade 12		Practicum in Manufacturing I DC	2.0	WLDG 2453	Advanced Pipe Welding	4	Pre-req. WLDG 1430 & WLDG 1425
Year 4/ Grade 12		Precision Metal Manufacturing II DC	2.0	WLDG 2443	Advanced Shielded Metal Arc Welding	4	Pre-req. WLDG 1428 & WLDG 1425
				WLDG 2435	Advanced Layout and Fabrication	4	Pre-req. WLDG 1317
<b>Total Year 4 High School Credits</b>			<b>8.0</b>	<b>Total Year 4 College Credit Hours</b>		<b>18.0</b>	
SUMMER or Year 5/ Grade 13		Practicum in Manufacturing II DC	3.0	WLDG 2388	Internship – Welding Technology/Welder	3	None
<b>Total High School Credits</b>			<b>40.0</b>	<b>Total College Credit Hours</b>		<b>60.0</b>	

*Welding courses may require additional hours during the school year (before and/or after school) and summer to complete contact hours required by St. Philip's College. Course location (Highlands HS or SPC Campus) will vary and will be announced each year.*