

ATTACHMENT #2: 2021-2023 P-TECH PLANNING AND IMPLEMENTATION GRANT
Crosswalk Template

Program of Study	IHE Partner	Program Previously Offered in District? (Y/N)	Expected Program Student Outcomes
Applied Agricultural Engineering	Southwest Texas Junior College	N	Welding Technology Associate of Applied Science Degree
			NCCER CORE Certificate
			NCCER Welding Certificate

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
Year 1 / Grade 9 - Fall	13000200	Principles of Agriculture, Food & Natural Resources	0.5	COLS 0300	College Success Skills	
Year 1 / Grade 9 - Spring	13000200	Principles of Agriculture, Food & Natural Resources	0.5	WLDG 1323	Welding Safety, Tools, and Equipment	3
Total Year 1 High School Credits			1	Total Year 1 College Credit Hours		3
Year 2/Grade 10 - Fall	13002210	Agricultural Mechanics and Metal Technologies Lab	0.5	WLDG 1421	Welding Fundamentals	4
Year 2/Grade 10 - Fall	13002210	Agricultural Mechanics and Metal Technologies Lab	0.5	WLDG 1430	Introduction to Gas Metal Arc Welding	4
Year 2/Grade 10 - Spring	13002210	Agricultural Mechanics and Metal Technologies Lab	0.5	WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
Year 2/Grade 10 - Spring	13002310	Agricultural Structures Design and Fabrications Lab	0.5	WLDG 1313	Intro to Blueprint Reading for Welders	3
Total Year 2 High School Credits			2	Total Year 2 College Credit Hours		15
Year 3/Grade 11 - Fall	13002310	Agricultural Structures Design and Fabrications Lab	0.5	WLDG 1457	Intermediate Shielded Metal Arc Welding (SMAW)	4
Year 3/Grade 11 - Fall	13002360	Agricultural Structures Design and Fabrications Lab	0.5	WLDG 1317	Introduction to Layout and Fabrication	3
Year 3/Grade 11 - Spring	13002360	Agricultural Structures Design and Fabrications Lab	0.5	WLDG 1435	Introduction to Pipe Welding	4
Year 3/Grade 11 - Spring	13002360	Agricultural Structures Design and Fabrications Lab	0.5	WLDG 1353	Intermediate Layout and Fabrication	3
Year 4/Grade 12 - Fall			0.5	COSC 1301	Introduction to Computing	3
Total Year 3 High School Credits			2.5	Total Year 3 College Credit Hours		17
Year 4/Grade 12 - Fall	13002360	Agricultural Equipment Design and Fabrication Lab	0.5	WLDG 2406	Intermediate Pipe Welding	4
Year 4/Grade 12 - Fall	13002360	Agricultural Equipment Design and Fabrication Lab	0.5	WLDG 2435	Advanced Layout and Fabrication	4
Year 4/Grade 12 - Fall	13002360	Agricultural Equipment Design and Fabrication Lab	0.5	WLDG 2451	Advanced Gas Tungsten Arc Welding	4
Year 4/Grade 12 - Fall			0.5	ELECTIVE	HUMANITIES & FINE ARTS	3
Year 4/Grade 12 - Spring	13002360	Agricultural Equipment Design and Fabrication Lab	0.5	WLDG 2453	Advanced Pipe Welding	4
Year 4/Grade 12 - Spring	13002360	Agricultural Equipment Design and Fabrication Lab	0.5	WLDG 2443	Advanced Shielded Metal Arc Welding	4
Year 4/Grade 12 - Spring			0.5	ELECTIVE	COLLEGE LEVEL MATHEMATICS	3
Total Year 4 High School Credits			3.5	Total Year 4 College Credit Hours		26
Total High School Credits			7.5	Total College Credit Hours		61

Certification (s) to be earned by high school graduation:

NCCER Core & Welding Certificates; Welding Technology Level II Certificate

Degree (s) to be earned by high school graduation:

Associates of Applied Science