

Merkel P-Tech Curriculum Alignment						
Participating High School:	Program Of Study:	IHE Partner:	Degree/Certification:			
Merkel High School	Welding	Cisco College	Level 1 Certificate:			
Industry Based Certification: AWS D1.1 Structural Steel						
High School Course				Post-Secondary Course		
Year/Grade Level	PIEMS Course/Code #	High School Course Name	High School Credits	Common Numbering System	College Course Name	College Credit Hours
Year 1/Grade 9	3220100	English I	1			
Year 1/Grade 9	3100500	Algebra I	1			
Year 1/Grade 9	03010207 or 03060201	Biology or IPC	1			
Year 1/Grade 9	03320100 or 03340400	World Geography or World History	1			
Year 1/Grade 9	3440100	Spanish I	1			
Year 1/Grade 9	03XXXXX	Fine Arts	1			
Year 1/Grade 9	PES000XX	PE/Athletics	1			
Year 1/Grade 9	13032250	Intro to Welding	1			
		Total Year 1 High School Credits	8		Total Year 1 College Credit Hours	0
Year 2/Grade 10	3220200	English II	1			
Year 2/Grade 10	3100700	Geometry	1			
Year 2/Grade 10	03010200 or 03040000	Biology or Chemistry	1			
Year 2/Grade 10	3340400	World History or Elective	1			
Year 2/Grade 10	3440200	Spanish II	1			
Year 2/Grade 10	XXXXXX	Elective	1			
Year 2/Grade 10	13032300	Welding I	2	WLDG 1421	Welding Fundamentals	4
				WLDG 1417	Intro to Layout and Fabrication	4
		Total Year 2 High School Credits	8		Total Year 2 College Credit Hours	8
Year 3/Grade 11	3220300	English III	1	ENGL 1301	Comp. I	3
Year 3/Grade 11	3100600	Algebra II	1	ENGL 1302	Comp II	3
Year 3/Grade 11	03040000 or 03050000	Chemistry or Physics	1			
Year 3/Grade 11	3340100	US History	1	HIST 1301	US History I	3
				HIST 1302	US History II	3
Year 3/Grade 11	XXXXXX	Elective	1	PSYC 2301	General Psychology	3
Year 3/Grade 11	XXXXXX	Elective	1	SOCI 1301	Sociology	3
Year 3/Grade 11	13032400	Welding II	2	WLDG 1430	Intro to GMAW	4
				WLDG 1412	Intro to FCAW	4
		Total Year 3 High School Credits	8		Total Year 3 College Credit Hours	26
Year 4/Grade 12	3220400	English IV	1	ENGL 2322	Brit Lt	3
				ENGL 2327	American Lit	3
Year 4/Grade 12	03101100 or 03102XXX	Precalculus or Advanced Math	1	MATH 1314	College Algebra	3
				MATH 2412	College Pre-Calculus	3
Year 4/Grade 12	XXXXXXX	Advanced Science	1	BIOL 2407	Biology for Non Science Majors	4
Year 4/Grade 12	3330100	Government	0.5	GOVT 2305	College Government	3
Year 4/Grade 12	3330300	Economics	0.5	ECON 2301	College Economics	3
Year 4/Grade 12	XXXXXXX	Elective	1			
Year 4/Grade 12	XXXXXXX	Elective	1			
Year 4/Grade 12	130330000	Practicum in Manufacturing	2	WLDG 1434	Intro to GTAW	4
				WLDG 1435	Intro to Pipe Welding	4
		Total Year 4 High School Credits	8		Total Year 4 College Credit Hours	30
		Total High School Credits	32		Total College Credits	62
Courses Required to complete Cert. I						