



Highlands P-TECH Manufacturing Crosswalk Class of 2026



Program of Study	IHE Partner	Expected Program Student Outcomes	
Advanced Manufacturing and Machinery Mechanics	Alamo College District: St. Philip's College	Year 4: Level 1 Certificate	Automated Industrial Process Associate
		Year 5: Level 2 Certificate	Automated Industrial Process Associate, Mechatronics
		Year 5: Associate of Applied Science (A.A.S.)	Automated Industrial Processing, Mechatronics

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		Summer Bridge/TSI Boot camp					
Total Year 0 High School Credits			0.0	Total Year 0 College Credit Hours			0.0
Year 1 / Grade 9	03220100	English I or English I HON	1.0				
Year 1 / Grade 9	03100500/ 03100700	Algebra 1 or Geometry HON	1.0				
Year 1 / Grade 9	03010200	Biology or Biology HON	1.0				
Year 1 / Grade 9	03340400	World Geography or Human Geography AP	1.0				
Year 1 / Grade 9	03440100/ 03980100	LOTE- Spanish I/II or ASL I/II	1.0				
Year 1 / Grade 9	N1290001	AVID I	1.0				
Year 1 / Grade 9	PES00052	Elective/PE	1.0				
Year 1 / Grade 9	N1290050	P-TECH College & Career Readiness	1.0				
Total Year 1 High School Credits			8.0	Total Year 1 College Credit Hours			0.0
Year 2 / Grade 10	03220200	English II or English II HON	1.0				
Year 2 / Grade 10	03100700/ 03102540	Geometry or Algebraic Reasoning for P-TECH	1.0				
Year 2 / Grade 10	03060201	Integrated Physics & Chemistry for P-TECH	1.0				
Year 2 / Grade 10	03340400	World History	1.0				
Year 2 / Grade 10	03440200/ 03980200	LOTE- Spanish II or ASL II	1.0				
Year 2 / Grade 10	N1290002	AVID II	1.0				
Year 2 / Grade 10	13032200	Principles of Manufacturing DC	1.0	CETT 1409	DC-AC Circuits	4	None
	13036900	Solid State Electronics DC	1.0	CETT 1429	Solid State Devices	4	CETT 1409
Total Year 2 High School Credits			8.0	Total Year 2 College Credit Hours			8.0



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	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	03220300	English III DC	1.0	ENGL 1301	Composition I	3	COLLEGE LEVEL ENGLISH
Year 3/ Grade 11	03100600	Algebra II or Algebra II DC	1.0	MATH 1314/1332	College Algebra or Contemporary Math	3	COLLEGE LEVEL MATH
Year 3/ Grade 11	03040000	Chemistry	1.0				
Year 3/ Grade 11	03340100	US History	1.0				
Year 3/ Grade 11	03500110/ 03155600	Art or Music Appreciation DC	1.0	ARTS 1301/1306	Art or Music Appreciation	3	None
Year 3/ Grade 11	N1290030	AVID III	1.0				
Year 3/ Grade 11	N1303683	Basic Fluid Power DC	1.0	ELMT 1305	Basic Fluid Power	3	None
	13032900	Manufacturing Engineering Technology I DC	1.0	RBTC 1305	Robotic Fundamentals	3	None
Total Year 3 High School Credits			8.0	Total Year 3 College Credit Hours		15.0	
Year 4/ Grade 12	03220400	English IV	1.0				
Year 4/ Grade 12	03101100	Pre-Calculus or other Math	1.0				
Year 4/ Grade 12	03050000	Physics I DC	1.0	PHYS 1305	Introductory Physics	3	COLLEGE LEVEL MATH
Year 4/ Grade 12	03330100 & 03310300	Government and Economics DC	1.0	ECON 1301	Introduction to Economics	3	None
Year 4/ Grade 12	N1290033	AVID IV	1.0				
Year 4/ Grade 12		Elective or Remediation	1.0				
Year 4/ Grade 12	13032950	Manufacturing Engineering Technology II DC	1.0	INTC 1357	AC/DC Motor Control	3	CETT 1409
	13032650	Diversified Manufacturing I DC	1.0	RBTC 1347	Electromechanical Devices	3	None
Total Year 4 High School Credits			8.0	Total Year 4 College Credit Hours		12.0	
Total High School Credits			36.0	Total College Credit Hours		35.0	
High School Graduation Ceremony**				Automated Industrial Process Associate, Level 1 Certificate			

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		<i>TBD</i> <i>Student reports to college campus only.</i>			Additional Manufacturing Courses		
Year 5/ Grade 13					Core Subject Remediation (if needed)		
Total Year 4 High School Credits			3.0*	Total Year 4 College Credit Hours		25.0*	
Total High School Credits			39.0*	Total College Credit Hours		60.0*	
High School Diploma <i>**Student can elect to end participation after Year 4 and receive diploma if all HS requirements have been met</i>				Level 2 Certificates and/or A.A.S Degree <i>*Courses and outcomes vary by student interest and goals</i>			