



## Highlands P-TECH Manufacturing Crosswalk 2024-2025





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

		High School Course	Post-Secondary Course				
Year / Grade Level	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	
		English I or English I HON	1.0				
		Algebra 1 or Algebra 2 HON	1.0				
		Environmental Systems or Biology HON	1.0				
Year 1 / Grade 9		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 College Credit Hours ra I, Algebra II, and Geometry by		_
		ly recommended that all P-TEC	CH studer n 10 <sup>th</sup> gra	de if they did not	•	the end o	_
		ly recommended that all P-TEC nts can take two math classes in available for online eve	CH studer n 10 <sup>th</sup> gra	de if they did not	ra I, Algebra II, and Geometry by take Algebra I in middle school.	the end o	-
Year 2/		Iy recommended that all P-TEC ats can take two math classes in available for online eve English II or English II HON Algebra 2 and/or	CH studer n 10 <sup>th</sup> gra ning clas	de if they did not	ra I, Algebra II, and Geometry by take Algebra I in middle school.	the end o	_
Year 2/ Grade 10		Iy recommended that all P-TEC ats can take two math classes in available for online eve English II or English II HON Algebra 2 and/or Geometry HON	CH studer n 10 <sup>th</sup> gra ening clas 1.0 1.0	de if they did not	ra I, Algebra II, and Geometry by take Algebra I in middle school.	the end o	_
•		Ily recommended that all P-TEC ats can take two math classes in available for online even English II or English II HON  Algebra 2 and/or  Geometry HON  Biology or Chemistry HON  World History or	CH studer n 10 <sup>th</sup> gra ening clas 1.0 1.0	de if they did not	ra I, Algebra II, and Geometry by take Algebra I in middle school.	the end o	_
•		Ily recommended that all P-TEC Its can take two math classes in available for online eve  English II or English II HON Algebra 2 and/or Geometry HON Biology or Chemistry HON World History or AP World History LOTE- Spanish I/II or ASL I/II	CH studer n 10 <sup>th</sup> gra ening clas 1.0 1.0 1.0	de if they did not	ra I, Algebra II, and Geometry by take Algebra I in middle school.	the end o	_
•		Its can take two math classes in available for online even English II or English II HON Algebra 2 and/or Geometry HON Biology or Chemistry HON World History or AP World History LOTE- Spanish I/II or ASL I/II or PE/Elective	CH studer n 10 <sup>th</sup> gra ening clas 1.0 1.0 1.0 1.0	de if they did not	ra I, Algebra II, and Geometry by take Algebra I in middle school.	the end o	_
•		Its can take two math classes in available for online even the English II or English II HON  Algebra 2 and/or Geometry HON  Biology or Chemistry HON  World History or AP World History  LOTE- Spanish I/II or ASL I/II or PE/Elective  AVID II  Basic Fluid Power DC	1.0 1.0 1.0 1.0 1.0 1.0 1.0	ede if they did not ses to complete c	ra I, Algebra II, and Geometry by take Algebra I in middle school. redits for HS graduation requirer	the end o SAISD Flex ments.	None
•		Ily recommended that all P-TEC ats can take two math classes in available for online even available for online even English II or English II HON  Algebra 2 and/or Geometry HON Biology or Chemistry HON World History or AP World History  LOTE- Spanish I/II or ASL I/II or PE/Elective  AVID II	1.0 1.0 1.0 1.0 1.0 1.0	ade if they did not ses to complete c	ra I, Algebra II, and Geometry by take Algebra I in middle school. redits for HS graduation requirer	the end o	HS is also





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\* Certificates and Degrees awarded will vary based on student academic

performance, course selection, and persistence in college degree plans



		High School Course			Post-Secondary Course		
Year / Grade Level	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
		English III or <i>English III DC</i>	1.0	ENGL 1301	Composition I	3	COLLEGE LEVEL ENGLISH
		Geometry or Algebra II DC	1.0	MATH 1314/1332	College Algebra or Contemporary Math	3	COLLEGE LEVEL MATH
		Chemistry or Chemistry OnRamps	1.0				
Year 3/		US History or AP US History	1.0				
Grade 11		LOTE/PE or Elective	1.0				
		AVID III	1.0				
		Solid State Devices DC	1.0	CETT 1429	Solid State Devices	4	CETT 1409
		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	13.0	
		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
Year 4/		Government and Economics	1.0				
Grade 12		Art or Music Appreciation DC	1.0	ARTS 1301/1306	Art or Music Appreciation	3	None
		AVID IV	1.0				
		Manufacturing Engineering Technology II DC	1.0	INTC 1357	AC/DC Motor Control	3	CETT 1409
		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 32.0				Total College Credit Hours	32.0	
High School Graduation Ceremony			Automated Industrial Process Associate, Level 1 Certificate				

	High School Course			Post-Secondary Course			
Year / Grade Level	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 Manufacturing Courses Core Subject Courses Required for AAS Degree Internships/Workforce Entry			
					Total Year 5 College Credit Hours	TBD	
Visit the St.	Philip's Colle	ege Automated			Total College Credit Hours	TBD	
Industrial Process website for additional information on degrees and certificates.				Level 2 Certificates and/or A.A.S	S Degree		

http://tinyurl.com/bdhrfrn2