



Highlands P-TECH Aviation Maintenance Crosswalk Class of 2026



Program of Study	IHE Partner	Expected Program Student Outcomes	
Aviation Maintenance	Alamo College District: St. Philip's College	Year 4: Level 1 Certificate	Aircraft Structures Mechanic
		Year 5: Level 2 Certificate	Aircraft Mechanic Airframe and/or Aircraft Mechanic Powerplant
		Year 5: Associate of Applied Science (A.A.S.)	Aircraft Technician, Airframe and/or Aircraft Technician, Powerplant

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	03440200/ 03980200	LOTE- Spanish II or ASL II	1.0				
Year 2 / Grade 10	N1290002	AVID II	1.0				
Year 2 / Grade 10	13039260/ 13039250	Principles of Distribution & Logistics DC / Principles of Transportation Systems DC	2.0	AERM 1310	Ground Operations	3	None
				AERM 1208	FAA Regulations	2	None
Year 2 / Grade 10	13039350/ N1304672	Introduction to Aircraft Technology DC / Introduction to Aerospace and Aviation DC	2.0	AERM 1241	Wood, Fabric, Finishes	2	None
				AERM 1303	Shop Practices	3	None
Year 2 / Grade 10	03340400	World History <i>Night/Flex School Optional</i>	1.0				
Total Year 2 High School Credits			10.0	Total Year 2 College Credit Hours			10.0



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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	<i>Chemistry</i> <i>Night/Flex School REQUIRED</i>	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 (Spring)	3	None
Year 3/ Grade 11	N1290030	AVID III	1.0				
Year 3/ Grade 11	N1304675/ 13039410	Aviation Ground School DC / Aircraft Airframe Technology + Lab DC	4.0	AERM 1315	Aviation Science	3	None
				AERM 1205	Weight and Balance	2	None
				AERM 1414	Basic Electricity	4	None
				AERM 1254	Aircraft Composites	2	None
Total Year 3 High School Credits			10.0	Total Year 3 College Credit Hours			20.0
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	13040455	Extended Practicum in Transportation Systems DC	3.0	AERM 1352	Aircraft Sheet Metal	3	None
				AERM 2486	Internship (Fall)	4	None
Year 4/ Grade 12	13040200	Management of Transportation Systems DC	1.0	AERM 2486	Internship (Spring)	-	None
				AERM 1491	Special Topics in Aircraft Mechanic/Technician	4	None
Total Year 4 High School Credits			9.0	Total Year 4 College Credit Hours			17.0
Total High School Credits			37.0	Total College Credit Hours			47.0
High School Graduation Ceremony				Aircraft Structures Mechanic, 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>		Aircraft Technician Airframe or Powerplant Courses			
Year 5/ Grade 13				Core Subject Remediation (if needed)			
Total Year 4 High School Credits			3.0*	Total Year 4 College Credit Hours			13.0*
Total High School Credits			40.0*	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>			