



THE FUTURE OF EDUCATION  
FOR TODAY'S STUDENTS



AEROSPACE  
ACADEMY



INFORMATION  
TECHNOLOGY  
& SECURITY  
ACADEMY



ADVANCED  
TECHNOLOGY &  
MANUFACTURING  
ACADEMY



DIESEL  
TECHNOLOGY  
ACADEMY



HEALTH  
PROFESSIONS  
ACADEMY



## ABOUT ALAMO ACADEMIES

Alamo Academies provides education, experience, and job opportunities for high school sophomores looking to advance their future before high school graduation. In partnership with Alamo Colleges and industry partners, Alamo Academies offers training and internship programs that introduce students to career opportunities in key industries while supporting a seamless transition from high school to college to the workplace.

## BENEFITS

### Career Options

Explore careers in the aerospace, information technology, advanced manufacturing, allied health and diesel technology industries right here in San Antonio.

### Free College Tuition and Credit

Earn 30+ hours of college semester credit leading to a certificate of completion from Alamo Colleges.

### Paid Summer Internship

Summer internships within the industry provide real-world experience. Students earn up to \$3,000 between their junior and senior year.

### Work Experience

Graduate from high school with specific, high-tech skills and valuable experience that translate into higher pay.



2-YEAR  
PROGRAM  
OF STUDIES



30+ HOURS  
COLLEGE  
DUAL CREDIT



PAID SUMMER  
INTERNSHIP



MULTIPLE  
INDUSTRY  
CERTIFICATIONS



CLASSES  
AT ALAMO  
COLLEGES



EQUAL TO  
\$12,000  
SCHOLARSHIP


<https://alamoacademies.com>



**Aviation Maintenance Program of Study (AA)**

JISD Course #	High School Course	TEA ID	HS Credit	Semester	College	College
<b>AA Year One</b>		<b>PEIMS</b>	<b>4</b>	<b>Section</b>	<b>Course</b>	<b>Hours</b>
T761DA	Introduction to Aircraft Technology	13039350	1	1st Per Fall	AERM 1315	3
					AERM 1303	3
T762	Principles of Transportation System	13039250	1	2nd Per Fall	AERM 1208	2
T763DA	Aircraft Airframe Technology	13039400	2	1st, 2nd Spr	AERM 1205	2
					AERM 1310	3
					<b>Total</b>	<b>13</b>
<b>AA Year Two</b>						
T764DA	Practicum Extended in Transportation Systems	13040455	3	1st, 2nd block Yearlong (1.5) per semester	AERM 1414	4
					AERM 1254	2
					AERM 1241	2
					AERM 1352	3
					Total	11
					<b>or</b>	
					AERM 1414	4
					AERM 1254	2
					AERM 1351	3
					AERM 2351	3
Total	12					


**Aviation Maintenance  
Program of Study**

<p><b>Aerospace Academy (AA)</b></p>	<p><b>Yearlong (36 Weeks)</b></p> <p><b>Grade 11-12</b></p> <p><b>Weight 1.1</b></p>	<p>This program is designed to provide high school students with technical training in airframe and power plant mechanics from college instructors, with paid summer internships the industry partners. Upon graduation, students will be prepared for jobs in the aerospace industry where they can complete their technical training toward their FAA license. Up to thirty college credit hours are available for a post –secondary course of study. <b>**Leads to jobs as an Aircraft Turbines Mechanic or Aircraft Structures Mechanic</b></p>	
--------------------------------------	--	---	---




Cybersecurity Program of Study (ITSA)						
JISD Course #	High School Course	TEA ID	HS Credit	Semester	College	College
<b>ITSA Year One</b>		<b>PEIMS</b>	<b>6</b>	<b>Section</b>	<b>Course</b>	<b>Hurs</b>
T352DA	Computer Maintenance/Lab	13027310	2	1st,2nd Per Fall	ITSA 1305	3
T340DA	Networking/Lab	13027410	2	1st,2nd Per Spring	ITSA 1425	4
					ITNW 1425	4
					ITSA 2439	4
					Total	15
<b>ITSA Year Two</b>						
T354DA	Practicum in Information Technology	13028005	3	1st, 2nd double bk Yearlong (1.5) per semester	ITSC 1316	3
					ITSY 1342	3
					ITSE 1302	3
					ITSE1311	3
					Total	12

**Cybersecurity  
Program of Study**

<p><b>Information Technology &amp; Security Academy (ITSA)</b></p>	<p><b>Yearlong (36 Weeks)</b></p> <p><b>Grade 11-12</b></p> <p><b>Weight 1.1</b></p>	<p>This program is designed to provide high school students with knowledge and skills in the area of information technology computer security, web development and programming and offers opportunities for paid summer internships with one of the industry partners. Graduates of this program will be prepared for entry-level Information Technology positions or for post-secondary Information Technology course of study.</p> <p><b>** Leads to jobs in Information Technology/Security &amp; Assurance</b></p>	 <p><b>INFORMATION TECHNOLOGY &amp; SECURITY ACADEMY</b></p>
--	--	--	---

Diesel and Heavy Equipment Program of Study (DTA)						
JISD Course #	High School Course	TEA ID	HS Credit	Semester	College Course	College Hours
<b>DTA Year One</b>		<b>PEIMS</b>	<b>7</b>	<b>Section</b>	<b>Course</b>	<b>Hours</b>
T772DA	Diesel Equipment Technology I	13040150	2	1st,2nd Fall	DEMR 1401	4
					DEMR 1406	4
T779DA	Diesel Equipment Technology II	13040160	2	1st,2nd Spr	DEMR 1405	4
					DEMR 1416	4
					<b>Total</b>	<b>16</b>
<b>DTA Year Two</b>		<b>PEIMS</b>				
T775DA	Practicum Extended in Transportation Systems	13040455	3	1st, 2nd block Yearlong (1.5) per semester	DEMR 1329	3
					DEMR 2432	4
					DEMR 2434	4
					DEMR 2435	4
					<b>Total</b>	<b>15</b>

**Diesel and Heavy Equipment Program of Study**


<p><b>Diesel Technology Academy (DTA)</b></p>	<p><b>Yearlong (36 Weeks)</b>  <b>Grade 11-12</b> <b>Weight 1.1</b></p>	<p>This program will provide a college pathway for high school juniors and seniors to attain Industry and Academic certificates helping to lead to high wage earning jobs or to further their higher education while addressing critical industry workforce needs. <i>Industry partners include HOLT CAT, ASCO (Case), ROMCO (Volvo), RDO (John Deere), Cooper Equipment, Zachry Construction, Dean Word Co., Martin Marietta</i> <b>**Leads to jobs with State Highway departments, Waste Management, Construction, Holt Cat, and an array of different oil and gas companies</b></p>	
---	---	--	---

Alamo Academies  
Dual Credit Crosswalk



Health Professions Academy (HPA)						
JISD Course #	High School Course	TEA ID	HS Credit	Semester	College	College
<b>HPA Year One</b>		<b>PEIMS</b>	<b>4</b>	<b>Section</b>	<b>Course</b>	<b>Hours</b>
T405DA	Human Anatomy & Physiology	13020600	1	1st Per Fall	BIOL 2401	4
103DA	English III	3220300	1	2nd Per Fall	ENGL 1301	3
T404DA	Pathophysiology	13020800	1	1st Per Spr	BIOL 2402	4
104DA	Independent Study (1 <sup>st</sup> time taken)	3221800	1	2nd Per Spr	ENGL 1302	3
					<b>Total</b>	<b>7</b>
<b>HPA Year Two</b>			<b>4.5</b>			
T403DA	Medical Microbiology	13020700	1	1st Per Fall	BIOL 2420	4
230DA	Psychology	3350100	0.5	2nd Per Fall	PSYC 2301	3
110DA	Independent Study in English (2 <sup>nd</sup> time taken)	3221810	1	1st Per Spr	PHIL 2306	3
T617DA	Practicum in Health Science	13020500	2	2nd Per Spr	PSYC 2314	3
					MDCA 1313	
					<b>Total</b>	<b>13</b>

**Health Professions  
Program of Study**

<p><b>Health Professions Academy (HPA)</b></p>	<p><b>Yearlong (36 Weeks)</b></p> <p><b>Grade 11-12</b></p> <p><b>Weight 1.1</b></p>	<p>This program is designed for students wishing to pursue degrees ranging from nursing and health information systems to respiratory care and invasive cardiovascular technology. The Center for Health Profession at Philip's College has the most advanced human simulation patient human simulation patient facility in the United States. It houses complete radiology systems and surgical site, an eight bed general hospital suite, and a fully functional nursing station.</p> <p><i>*Limited number of slots available.</i></p> <p><i>**Leads to jobs in Certified Nursing Assistant, Licensed Vocational Assistant, Licensed Vocational Nurse</i></p>	 <p>HEALTH PROFESSIONS ACADEMY</p>
--	--	--	---


## Alamo Academies Dual Credit Crosswalk



### Manufacturing Technology Program of Study (ATMA)

JISD Course #	High School Course	TEA ID	HS Credit	Semester	College Course	College Hours
<b>ATMA Year One</b>		<b>PEIMS</b>	<b>4</b>	<b>Section</b>	<b>Course</b>	<b>Hours</b>
<b>T752DA</b>	Precision Metal Manufacturing I	13032700	2	1st, 2nd Per. Fall Blocks	MCHN 1343	3
					INMT 2303	3
					MCHN 1270	2
<b>T754DA</b>	Metal Fabrication and Machining I	13032700	2	1st, 2nd Per Spr. Blocks	RBTC1305	3
					MCHN 1438	4
					<b>Total</b>	<b>15</b>
<b>ATMA Year Two</b>						
<b>T755DA</b>	Practicum/Extended-Practicum in Manufacturing	13033005	3	1st, 2nd block Yearlong (1.5) per semester	MCHN 1320	3
					MCHN 1302	4
					MCHN 2303	4
					MCHN 1302	4
					<b>Total</b>	<b>15</b>
					CETT 1409	4
					ELMT 1305	3
					INTC 1357	4
RBTC 1347	4					
					<b>Total</b>	<b>15</b>

### Manufacturing Technology Program of Study

<b>Manufacturing Technology Academy (ATMA)</b>	<b>Yearlong (36 Weeks)</b>  <b>Grade 11-12</b> <b>Weight 1.1</b>	<p>This program prepares students for careers in manufacturing production operations and facilities maintenance. Student competes for paid internships in the summer of their junior year with such companies as Dynatech Turbine Services, Columbia Industries, Alamo Iron Works, Light Speed Technology and others. <b>** Leads to careers such as CNC Tool Operator, Manufacturing Operation Maintenance Assistant</b></p>	 <b>ADVANCED TECHNOLOGY &amp; MANUFACTURING ACADEMY</b>
--	---	---	---