



# SCIENCE & TECHNOLOGY INSTITUTE

If you want a career that lets you *transform everything*, welcome to the beginning of a rewarding journey.

While each of the Alamo Colleges has its own history, campus and culture, the Alamo Colleges Institutes have been organized to help you make the most of what our colleges collectively offer.

Each institute represents a system of educational pathways toward specialized careers. Choose either the general field of study or a specific job you're after, and the institute will show you the path to follow, step by step, to arrive at the future you want. Each course you take in the institute you've chosen builds one upon another. We call them stackable credentials, meaning you take courses that move you toward your end goal—the career you've chosen.

This approach will help you:

- **SAVE TIME** – Take only courses you need, either to be job-ready when you graduate from one of the Alamo Colleges or to transfer to a university.
- **SAVE MONEY** – Don't pay for unneeded courses or take more credit hours than you need to graduate or transfer.

Learn more about all six institutes and the programs available through each one. Simply talk to an advisor at any of our colleges or visit [alamo.edu](http://alamo.edu).



**Choose a career that lets you TRANSFORM EVERYTHING** – as a food scientist, animal breeder, geological technician, environmental protection technician, water and wastewater treatment plant operator, computer programmer, chemical engineer, chemist, physicist, statistician, mathematician, hydrologist, geographer, economist, historian.

DEGREE TITLE	DEGREE / CERTIFICATE	NLC	NVC	PAC	SAC	SPC
<b>Advanced Materials Technology</b>	<b>AAS</b>		●			
Nanotechnology	ATC		●			
Nanobiotechnology	CL1		●			
Semiconductor Materials Technology	CL1		●	●	●	
<b>Agriculture</b>	<b>Pre-Major</b>		●	●	●	
<b>Anthropology</b>	<b>Pre-Major</b>	●	●		●	
<b>Associate of Science</b>	<b>AS</b>	●	●	●	●	●
<b>Biology</b>	<b>Pre-Major</b>	●	●	●	●	●
<b>Biomedical Engineering Technology</b>	<b>AAS</b>					●
Medical Imaging Technology	ESC					●
Healthcare Technology Management - Information Systems	ESC					●
Human Patient Simulation Technology	OSA					●
<b>Biotechnology</b>	<b>Pre-Major</b>		●		●	●
<b>Chemistry</b>	<b>Pre-Major</b>	●	●	●	●	
<b>Computer Information Systems</b>	<b>Pre-Major</b>		●	●	●	
<b>Computer Maintenance Technology</b>	<b>AAS</b>					●
<b>Computer Maintenance w/ Cisco Specialization</b>	<b>AAS</b>					●
Computer Maintenance w/ Cisco Specialization	CL1					●
Cisco Systems Networking	CL1					●
<b>Computer Programmer</b>	<b>AAS</b>			●	●	
Computer Programming Intermediate	CL2			●	●	
Computer Programming Basics	CL1			●		
C++ Programming Skills	OSA				●	
Java Programming Skills	OSA				●	
Visual Basic .NET Programming	OSA				●	
Web Programming	OSA				●	
<b>Computer Science</b>	<b>Pre-Major</b>	●	●	●	●	●
<b>Computer Support Specialist</b>	<b>AAS</b>			●	●	
Computer Desktop Support Technician	CL1				●	
Computer Support Specialist	CL1			●	●	
Personal Computer Skills	CL1			●		
A+ Certificate Preparation	OSA			●		
CompTIA A+, Linux+ and Network+	OSA				●	
<b>Engineering</b>	<b>Pre-Major</b>				●	
<b>Environmental Science</b>	<b>Pre-Major</b>				●	
<b>General Science</b>	<b>Pre-Major</b>	●	●	●		
<b>Geography</b>	<b>Pre-Major</b>		●			
<b>Geology</b>	<b>Pre-Major</b>					
<b>Information Assurance and Cyber Security</b>	<b>AAS</b>		●	●	●	
Computer Forensics	CL1		●	●	●	
Information Assurance and Cyber Security	CL1		●	●	●	
Information Technology & Security Academy	CL1				●	
Comp TIA Security+ Certification Preparation	OSA		●		●	
Cyber First Responders	OSA		●		●	●
Linux Professional Institute Certification	OSA				●	
<b>Information Technology &amp; Cyber Security Specialist</b>	<b>AAS</b>					●
Information Technology & Cyber Security Specialist	CL1					●

DEGREE TITLE	DEGREE / CERTIFICATE	NLC	NVC	PAC	SAC	SPC
<b>Information Technology Network Administration</b>	<b>AAS</b>					●
MCSE Server Infrastructure	CL1					●
CompTIA Linux+ Certification Preparation	OSA					●
Comp TIA Security+ Certification Preparation	OSA					●
Information Technology Network Specialists	OSA					●
<b>Landscape and Horticulture Science</b>	<b>AAS</b>			●		
Basic Nursery and Landscape Operations	CL1			●		
Floral Design Technician	CL1			●		
Landscape and Horticulture Science	CL1			●		
Small/Organic Farmer	CL1			●		
<b>Mathematics</b>	<b>Pre-Major</b>	●	●	●	●	●
<b>Mechanical Engineering</b>	<b>Pre-Major</b>		●		●	●
<b>Multi-Media Specialist</b>	<b>CL1</b>				●	
<b>Network Administrator</b>	<b>AAS</b>		●	●	●	
Cisco Certified Network Professional (CCNP)	ATC		●			
Virtualization/Private Cloud	ESC				●	
Cisco Certified Network Associate	CL1		●	●	●	
MCSA: Windows Server Administrator	CL1				●	
MCSE: Server Infrastructure	CL1		●			●
<b>Network and Cloud Architecture</b>	<b>AAS</b>		●			
Open Source Solutions and Authentication	CL1		●			
<b>Power Generation &amp; Alternative Energy</b>	<b>AAS</b>					●
Power Generation & Alternative Energy	CL2					●
Power Generation & Alternative Energy	CL1					●
Power Generation & Alternative Energy	OSA					●
<b>Psychology</b>	<b>Pre-Major</b>	●	●	●	●	●
<b>Secure Software Development</b>	<b>AAS</b>				●	
<b>Software Development</b>	<b>CL1</b>		●			
Java Programming	OSA		●			
<b>Turfgrass and Golf Course Management</b>	<b>AAS</b>			●		
Turf and Landscape Irrigation	CL1			●		
Turfgrass and Golf Course Management	CL1			●		
<b>Water Resource Science</b>	<b>AAS</b>		●			
Water Resource Science	CL2		●			
Water Resource Science	OSA		●			
<b>Web and Mobile Developer</b>	<b>AAS</b>					●
Web and Mobile Developer	CL1					●
Android Application Developer	OSA					●
Web Designer Apprentice II	OSA					●
Web Designer Apprentice I	OSA					●

**DEGREES** (AS) Associate of Science • (AAS) Associate of Applied Science

**CERTIFICATES** (ATC) Advanced Technical Skills Certificate • (ESC) Enhanced Skills Certificate • (CL2) Certificate Level 2 • (CL1) Certificate Level 1  
(OSA) Occupational Skills Award

**PRE-MAJOR** (Pre-Major) Major the student plans to pursue at the transfer university. This is the subject area the student declares for advising purposes.

Based on 2018-2019 academic catalog year. Subject to change without notice. Check with an advisor concerning availability of courses and programs.

Start your journey  
here or at any of our  
other **INSTITUTES**:

  
**HEALTH &  
BIOSCIENCES**  
INSTITUTE

  
**BUSINESS &  
ENTREPRENEURSHIP**  
INSTITUTE

  
**ADVANCED  
MANUFACTURING  
& LOGISTICS**  
INSTITUTE

  
**PUBLIC SERVICE**  
INSTITUTE

  
**SCIENCE &  
TECHNOLOGY**  
INSTITUTE