

Cisco Networking Academy: Texas Profile

Educating the Architects of the Networked Economy

Now in its second decade, Cisco® Networking Academy® has provided more than two million students worldwide with the information technology (IT) and networking skills necessary to compete in the 21st century global economy.

To prepare the Networking Academy for the decade ahead, Cisco has launched innovative new curricula including Cisco Certified Network Associate (CCNA®) Discovery and CCNA Exploration, as well as a new version of IT Essentials called PC Hardware and Software, and updates to the Cisco Certified Network Professional (CCNP®) curriculum. These new courses have been specifically designed to help students be more successful, whether they plan to be IT professionals or are simply seeking a deeper understanding of IT.

Our new courses align to industry certifications, including the recently launched Cisco Certified Entry-Level Technician (CCENT™). In addition to serving as an entry-level certification for employers, CCENT helps meet the new Carl D. Perkins Career and Technical Improvement Act funding requirements.

The new Networking Academy curricula provide seamless educational pathways between secondary and post-secondary institutions and are aligned to national and state education standards for math, science, and language arts. These courses can also help students prepare to pursue degrees related to science, technology, engineering, and math (STEM). In the United States, academies are located in high schools, technical schools, colleges, universities, and community-based organizations with more than 125,000 students enrolled at more than 2300 academies.⁺

As IT continues to be a high-demand job field in the United States, many educational institutions are incorporating IT into their offerings:

- Secondary schools are building pathways for students around the IT career cluster.
- Post-secondary institutions are integrating IT curriculum into degree programs ranging from computer science to networking to business.
- Community colleges and technical schools are providing existing workers with the opportunity to upgrade their skills, pursue additional education, and expand their expertise in technical fields.

Through its proven model of public-private partnerships with education, government, and business, Cisco Networking Academy is addressing the growing need for a pipeline of skilled IT professionals at a time when corporate technology leaders, public sector IT officials, and technology-service-oriented industries are concerned about the lack of a trained technical workforce to fill existing jobs.

⁺ Source: AME/MRE FULL Package_10 31 07 Quarterly Metrics_v2 Date: November 28, 2007

An academy has a class currently in session or has taught a class, with at least 3 students, within the last 12 months.

A student is enrolled in a class or has taken a class within the last 12 months.

Learn More

Table 1 lists data about academies in Texas. Table 2 lists information about Networking Academy curricula in Texas, and Table 3 shows information by student education level.

For additional information about Cisco Networking Academy, visit <http://www.cisco.com/go/netacad>

Table 1. Cisco Networking Academy in Texas

Networking Academy students	11,255
Distinct cumulative academy students (having successfully completed a course)	47,027
Academy instructors	336
Total estimated cumulative contribution value to Texas academies*	\$27,220,186

Source: AME/MRE FULL Package_10 31 07 Quarterly Metrics_v2 Date: November 28, 2007

Cumulative students are distinct; therefore, each student is only counted once.

*This estimate includes donations and discounts made to educational institutions implementing Cisco Networking Academy within Texas.

*Sources: AME/MRE reports 1210_190810.31.07 Date: November 30, 2007

Table 2. Networking Academy Curricula in Texas

Curriculum	CCNA®	CCNP®	IT Essentials	Security	Wireless
Number of academies by curriculum	162	10	83	5	7

The above curricula represent the core Networking Academy curricula. Panduit Network Infrastructure Essentials, Java, and UNIX are also available.

Academies often teach multiple curricula and may be counted more than once in this table.

Source: AME/MRE rpt 3087 Date: December 5, 2007

Table 3. Texas Academies and Students by Education Level

Education Level	Number of Texas Academy Students	Percentage of Texas Students	Number of Texas Networking Academies	Percentage of Texas Academies*
Secondary schools	5402	48%	121	64%
Community colleges	5290	47%	59	31%
Universities	450	4%	8	4%
Other	113	1%	2	1%
Total by education level	11,255	100%	189	100%

Source: AME/MRE FULL Package_10 31 07 Quarterly Metrics_v2 Date: November 28, 2007

Academies represented in "Other" category include the following: community-based organizations, middle schools, the military, nontraditional educational settings, and post-graduate institutions

Cisco Networking Academy: Workforce Development

If the United States is to remain competitive in this global economy, leading experts believe we must have a trained and educated workforce. And yet the number of U.S. students pursuing careers in science, technology, engineering and math—critical areas for educating the workforce of tomorrow—continues to decline.

Cisco Networking Academy addresses this gap by providing students with the skills needed to succeed in the wide range of careers available today and tomorrow. In addition to integrating IT skills, the Networking Academy also embeds math, science, and language arts skills in the curricula.

IT Occupational Data

Table 4 lists information about IT-related occupations in the United States, and Table 5 lists this information for Texas.

Table 4. Selected IT-Related Occupations in the United States

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2006*
	2004	2014	Numeric	Percent		
Computer Support Specialists	518,370	637,560	119,190	22	18,300	514,460
Computer Systems Analysts	486,550	639,500	152,960	31	20,800	446,460
Network and Computer Systems Administrators	278,380	385,250	106,870	38	13,770	289,520
Network Systems and Data Communications Analysts	231,270	357,460	126,190	54	15,340	203,710
Computer and Information Systems Managers	280,290	352,920	72,620	25	12,350	251,210

U.S. Department of Labor, Bureau of Labor Statistics, <http://www.bls.gov/oco/oco20024.htm>, based on data availability as of December 2007

*U.S. Department of Labor, Bureau of Labor Statistics, May 2006 State Occupational Employment and Wage Estimates (US), http://stat.bls.gov/oes/current/oes_nat.htm

Table 5. Selected IT-Related Occupations in Texas

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2006^
	2004	2014	Numeric	Percent		
Computer Support Specialists	35,200	44,000	8,800	25	1,315	38,650
Computer Systems Analysts	41,000	56,150	15,150	37	1,980	39,540
Network and Computer Systems Administrators	21,400	30,450	9,050	42.3	1,140	21,230
Network Systems and Data Communications Analysts	15,450	23,100	7,650	49.5	945	12,260
Computer and Information Systems Managers	14,950	19,150	4,200	28.1	690	14,900

Texas Workforce Commission, <http://www.tracer2.com/?PAGEID=67&SUBID=114>, based on data availability as of December 2007

^ U.S. Department of Labor, Bureau of Labor Statistics, May 2006 State Occupational Employment and Wage Estimates (by state), <http://stat.bls.gov/oes/current/oesstcst.htm>

Texas Student and Graduate Profile

When Lelia Warner was suddenly on her own, raising three junior high and high school children, she had no idea what the future would hold. Deciding she needed more tools in her tool kit, Lelia enrolled at Victoria College in Victoria, Texas, in 2004. Although she had no specific direction in mind, Lelia decided to take an introductory networking class and soon discovered she took to networking “like a duck to water.” She subsequently enrolled in the Cisco® Networking Academy® and today, is successfully employed as the network specialist for Fort Bend County Libraries.

Lelia has overcome her share of challenges both inside and outside the classroom. In addition to working a full-time job, going to school, and single-handedly running a household while raising teenagers, Lelia had to overcome the challenge of being one of only a handful of women in the academy, and the only older woman returning to school.

“It was difficult breaking into the networking field as a middle-aged woman” says Lelia, but she is now confident that “with this experience under my belt I can go anywhere and obtain any job.” Plus, having surprised herself with her achievements, Lelia now enjoys surprising others and seeing their reaction when they learn she is the networking administrator.

Lelia recalls a day when she walked into the classroom and discovered a male classmate had already cabled her router for her. When Lelia asked him why, he replied “Well, because you’re a girl!” Determined to maximize her learning experience and do it on her own, Lelia made it clear that she would not be requiring any help. She followed that up with being the first one to scramble up the ladder to pull wires through the ceiling, and soon the rest of the class became entwined in friendly competitions that made the class even more fun.

In retrospect, Lelia recalls feeling intimidated by a classroom full of men, but her drive to learn the material and determination to face her fears got her through. Having demonstrated she was a force to be reckoned with, Lelia continued to work hard, earned an associate of science degree and an associate of applied science network administration degree, and then transferred to the University of Houston at Victoria where she earned her bachelor of science degree in computer science, information systems.

Then came the challenge of job interviews. Lelia had interviewed for various positions and, even though she was qualified, it took her almost one year to secure her current position. She remembers all too well sitting across from inattentive male interviewers who were not about to give a newly-minted, middle-aged, female graduate a break in a male dominated industry. She persisted, and is now working at a company which runs its network on Cisco equipment where she says she feels right at home.

Lelia attributes a large part of her success to the labs and to her Networking Academy instructor. Says Lelia: “Sharon Wagner was very encouraging and made the course fun. We played Jeopardy against each other to instill knowledge of terms and protocols and she held competitions to see who could get their network up and running first. Sharon was able to create an environment where students could learn through trial and error, giving instructions and turning the students loose, but always there to help students learn through their mistakes. She even allowed the students to perform the upgrade for the academy lab



equipment.” Lelia enjoyed the hands-on experience of being able to actually configure a network from scratch and the satisfaction of watching it come up and “talk” across the wires. She also enjoyed surprising herself by what she was able to accomplish.

Lelia recalls a day when she walked into the classroom and discovered a male classmate had cabled her router for her. When Lelia asked him why, he replied “Well, because you’re a girl!” Determined to maximize her learning experience and do it on her own, Lelia made it clear that she would not be requiring any help.

As Network Specialist at the Fort Bend County Libraries, Leila is in charge of the network, routing, switching, servers, firewall, and security for all eight library branches. “I have been involved in configuring and bringing up two new voice over IP switches in the network and I have also been involved in adding network modules and configuring existing routers in order to bring up new T1 lines to existing library branches. We will be adding two more library branches onto the network within the next two years and that is an exciting adventure on the horizon.”

With the library expansion and the possibilities that her college degree and networking knowledge and experience have created for her, Lelia is excited about future opportunities. “It was difficult breaking into the networking field as a middle-aged woman,” says Lelia, but she is now confident that “with this experience under my belt I can go anywhere and obtain any job.” Plus, having surprised herself with her achievements, Lelia now enjoys surprising others and seeing their reaction when they learn she is the networking administrator.

Outside of technology, Lelia enjoys traveling, fishing, camping, and sewing. Her children are now grown and on their own and extremely proud of their mother. Her advice to others who may be interested in the Networking Academy is, “Go for it. ... If you have an analytical mind, enjoy command line type of computing, and can ‘see’ the big picture as far as being able to picture a network and analyze what is happening, then success will abound in the Networking Academy.”

Lelia also hopes to encourage and inspire other women with her story and offers women an additional piece of advice: “If your goal is to be out there with the guys, then you can’t accept help. ... There are ways to carry equipment that use leverage rather than brute strength ... and women can learn to use tools!”

To learn more about the Networking Academy at Victoria College, go to: <http://www.victoriacollege.edu/workforce/cis/>

Active Cisco Networking Academies in Texas

U.S. Congressional District Database

Data for this report was gathered using the U.S. Congressional District Database. This tool was developed to communicate with congressional representatives about Cisco Networking Academy implementation in their home districts. The database maps active academies by congressional district or by all districts within a state, providing academy name, city, state, and congressional district. The listing by state is updated annually.

Table 6 lists information about academies in Texas congressional districts. Custom reports by congressional districts may be run upon request by contacting Melody Buchanan at Melody.Buchanan@ciscolearning.org.

Table 6. Networking Academies in Texas Congressional Districts

Number of Texas Congressional Districts	Number of Texas Congressional Districts <u>with</u> Networking Academies	Number of Texas Congressional Districts <u>without</u> Networking Academies	% Texas Congressional District Penetration
32	32	0	100%

Academies listed here have taught a class, with at least one student, within the last six months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: January 3, 2008

Active Texas Cisco Networking Academies by Congressional District

* Indicates Cisco Networking Academy Training Center

Academies listed here have taught a class, with at least one student, within the last six months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: December 31, 2007

Congressional District 1

- Angelina College (Lufkin)
- *Kilgore College (Kilgore)
- Marshall Independent School District (Marshall)
- Nacogdoches H.S. Cisco Academy (Nacogdoches)
- Tenaha ISD (Tenaha)
- Tyler Junior College (Tyler)

Congressional District 2

- Humble ISD Career and Technology Education Center (Humble)
- Klein Collins High School (Spring)
- Klein Forest High School (Houston)
- Klein High School (Klein)
- Lamar Institute of Technology (Beaumont)
- *Lamar State College - Port Arthur (Port Arthur)

- North Harris College (Houston)

Congressional District 3

- CCCCD Preston Ridge (Frisco)
- *Collin County Community College District - Regiona (Frisco)
- Frisco ISD (Frisco)
- McKinney High School (McKinney)
- Plano ISD (Plano)
- *Richland College (Dallas)
- RLC CTI (Dallas)
- Westwood College Dallas DLD (ACC) (Dallas)

Congressional District 4

- CCCCD Central Park (McKinney)
- Commerce High School (Commerce)
- Grayson County Community College (Denison)

- McKinney High School North (McKinney)
- Paris Junior College Cisco Training Academy (Paris)
- Texarkana College Cisco Academy (Texarkana)
- *Texas A&M University Commerce (Commerce)
- Wylie ISD (Wylie)
- Whitesboro High School (Whitesboro)

Congressional District 5

- New Summerfield High School (New Summerfield)
- Wills Point Cisco Academy (Wills Point)

Congressional District 6

- Midlothian High School (Midlothian)
- Tarrant County College, Southeast (Arlington)

Congressional District 7

- Cisco Academy At Cy-Fair H.S. (Cypress)
- Cypress Creek Cisco Networking Academy (Houston)
- The Guthrie Center (Houston)
- Westside High School (Houston)

Congressional District 8

- Caney Creek Academy (Conroe)
- *Education Service Center, Region 6 (Huntsville)
- Kingwood College Cisco Local Academy (Kingwood)
- Lamar State College - Orange (Orange)
- Montgomery ISD (Montgomery)
- Oakridge Cisco Academy (Conroe)
- The Woodlands High Schools (The Woodlands)
- Trinity ISD (Trinity)

Congressional District 9

- Westwood College-Houston HNS (ACC) (Houston)

Congressional District 10

- Waller independent School District (Waller)
- Brazos ISD Cisco Academy (Wallis)

- Cy-Fair College (Cypress)
- Cypress Springs High School (Cypress)
- Klein Oak High School (Spring)
- Lanier High School (Austin)
- *Tomball College Regional Academy (Tomball)

Congressional District 11

- Lamesa ISD (Lamesa)
- Burnet High School (Burnet)
- Howard College/San Angelo ISD (San Angelo)
- Midland College (Midland)
- *Region 18 Education Service Center (Midland)
- West Texas (Sweetwater)

Congressional District 12

- Boswell High School (Fort Worth)
- Brewer High (White Settlement)
- Central HS (Keller)
- *Education Service Center 11 (Fort Worth)
- Weatherford College (Weatherford)
- Weatherford ISD (Weatherford)
- Westwood College North Richland Hills DLF (ACC) (Fort Worth)

Congressional District 13

- AACAL (Amarillo)
- Amarillo College (Amarillo)
- Canyon ISD-Randall (Amarillo)
- Frank Phillips College Academy (Borger)
- Guthrie Consolidated School District (Guthrie)
- Munday ISD (Munday)
- VC Century City Academy (Wichita Falls)
- Vernon High School (Vernon)
- Stratford High School - Stratford ISD (Stratford)
- *Vernon College (Wichita Falls)

Congressional District 14

- Career Development School - VISD (Victoria)
- Rockport-Fulton H.S. (Rockport)
- *The Victoria College (Victoria)

Congressional District 15

- Coastal Bend College (Beeville)
- Region 1 Local (Edinburg)
- *Region 1 Education Service Center (Edinburg)
- Taft ISD (Taft)

Congressional District 16

- Americas High School (El Paso)
- *El Paso County Community College District (El Paso)
- EPCC Valle Verde Campus (El Paso)
- Hanks High School (El Paso)
- San Elizario ISD (San Elizario)
- University of Texas At El Paso (El Paso)
- Western Technical College (ACC) (El Paso)

Congressional District 17

- Bryan Cisco Academy (Bryan)
- Burleson ISD (Burleson)
- McLennan Community College (Waco)
- *Texas State Technical College, Waco (Waco)

Congressional District 18

- Barbara Jordan High School For Careers Cisco Network (Houston)
- Houston Community College (Houston)
- Jefferson Davis High School (Houston)
- Wheatley HS Center for Technology (Houston)
- *Region 4 Education Service Center (Houston)

Congressional District 19

- Amherst Independent School District (Amherst)
- Abilene Christian University (Abilene)

- *Education Service Center, Region 17 (Lubbock)
- Frenship Independent School District (Wolfforth)
- Hale Center Independent School District (Hale Center)
- Littlefield Independent School District (Littlefield)
- Plains Independent School District (Plains)
- Seminole Independent School District (Seminole)
- Shallowater ISD (Shallowater)
- South Plains College (Levelland)
- Sudan Independent School District (Sudan)

Congressional District 20

- Alamo Community College District On Behalf of Nort (San Antonio)
- Business Careers High School (San Antonio)
- Warren Cisco Systems Networking Academy (San Antonio)

Congressional District 21

- *Education Service Center, Region 20 (San Antonio)
- Alamo Community College District On Behalf of St. (San Antonio)
- New Braunfels High (New Braunfels)

Congressional District 22

- Houston Community College Southwest Cisco Academy (Stafford)
- Pasadena ISD LP Card Career and Technical Center (Pasadena)
- San Jacinto Community College Central Campus (Pasadena)
- WCJC Cisco Academy (Richmond)

Congressional District 23

- Balmorhea ISD (Balmorhea)
- Alamo Community College District On Behalf of Palo (San Antonio)
- Sanderson High School (Sanderson)

Congressional District 24

- Academy of Irving ISD (Irving)
- Grapevine-Colleyville CHHS (Grapevine)
- Grapevine-Colleyville GHS (Grapevine)
- North Lake College (Irving)

Congressional District 25

- Austin Community College (Austin)
- Akins Cisco Academy (Austin)
- *Education Service Center, Region 13 (Austin)
- San Marcos High (San Marcos)
- La Grange High (La Grange)

Congressional District 26

- Birdville High School (North Richland Hills)
- Advanced Technology Complex (Denton)
- DeVry University, Dallas (ACC) (Irving)
- Lewisville ISD (Lewisville)
- North Central Texas College (Gainesville)
- Northwest ISD (Justin)
- Richland High School - Birdville ISD (North Richland Hills)
- Tarrant County College, Northeast (Hurst)
- Tarrant County College, South Campus (Fort Worth)

Congressional District 27

- Carroll HS (CCISD) (Corpus Christi)
- *Del Mar College (Corpus Christi)
- Dr. Maria Luisa Garza-Gonzales Charter School (Corpus Christi)
- Flour Bluff ISD (Corpus Christi)
- King HS (CCISD) (Corpus Christi)
- Moody HS (CCISD) (Corpus Christi)
- Ray HS (CCISD) (Corpus Christi)
- West Oso ISD (Corpus Christi)

Congressional District 28

- La Vernia ISD (La Vernia)

- Laredo Community College (Laredo)
- South Texas College (McAllen)
- United South High School (Laredo)

Congressional District 29

- Cesar Chavez High School (Houston)
- Lee College Cisco Local Academy (Baytown)

Congressional District 30

- A. Maceo Smith High School (Dallas)
- Business Management Center (Dallas)
- Carter High School (Dallas)
- *Dallas ISD - Skyline High School (Dallas)
- El Centro College (Dallas)
- Kimball High School (Dallas)
- Madison High School (Dallas)
- Roosevelt High School (Dallas)
- South Oak Cliff High School (Dallas)
- Spruce High School (Dallas)

Congressional District 31

- Cedar Park High (Cedar Park)
- Central Texas College (Killeen)
- Stephenville ISD Cisco Academy (Stephenville)
- Tarleton State University Cisco Networking Academy (Stephenville)
- Yoe High School (Cameron)

Congressional District 32

- Berkner High School (Richardson)
- Mountain View College (Dallas)
- Pearce High School (Richardson)
- W.T. White High School (Dallas)
- *Richardson Independent School District (Richardson)

Cisco Networking Academy: Promoting IT Careers

Technology jobs will not only continue to grow, but the role of information technology (IT) workers will continue to evolve since today nearly every company in every industry relies on IT. The skills learned through Cisco Networking Academy lay a critical foundation for almost any profession, even non-IT careers. Networking Academy graduates not only build careers, but also help build businesses, communities, and countries.

If the United States is to remain competitive and continue to innovate in a global economy, we must foster student interest in pursuing technology- and engineering-related careers. A critical strategy in building a technical workforce for the 21st century is the development of seamless programs like Networking Academy that build pathways between secondary and post-secondary institutions and lead to professional career development.

Through the Cisco Promoting IT Careers initiatives, students are introduced to potential careers in IT and networking and given valuable information about pathways to advanced education, certification, and careers.

Visit the Promoting IT Careers Website, <http://www.cisco.com/go/promoteitcareers>, which is dedicated to the following:

- Increasing awareness and interest in opportunities in IT and networking
- Creating interest in IT and networking as a profession
- Helping students establish career goals
- Providing tools and resources to support success as students pursue IT careers
- Creating opportunities for students and graduates to transition from classroom to careers

Five Ways to Promote IT Careers

The following events and activities engage students at all levels of experience. Valuable tools and resources for each event are available through the Promoting IT Careers Website.

1. Host Your Own All Academy Day

All Academy Day is a competition that gives students the chance to show off the skills they have learned in the Networking Academy and to explore career pathways by interacting with IT professionals. Teams of students participate in a series of hands-on events selected from the following options: cable making, component identification, computer building, home networking, quiz bowl, router configuration, TAC/professionalism, and virtual computers. For more information, visit: <http://www.cisco.com/go/allacademyday>

2. Help Students See Your Shadow

Job shadowing can be an important first step in pointing students toward IT careers. You can put on a full **Job Shadow Day** or offer an event as simple as a guest speaker in your classroom. Hearing first-hand about the world of work from IT professionals helps students relate their classroom experiences to the workplace and can inspire students to pursue careers in math, science, and technology. For more information, visit: <http://www.cisco.com/go/jobshadow>

3. Introduce Young Students to the World of IT

Packetville is a public e-learning portal filled with interactive and educational resources for introducing students aged 8 to 14 to the world of IT. Lesson plans, which are aligned with the standards of the International Society for Technology in Education, include community service projects and career exploration. For more information, visit: <http://www.cisco.com/go/packetville>

4. Connect Students with Employers

The Networking Academy is connecting Networking Academy alumni with employers through the Career Connection job board. For more information, visit: <http://cc.netacad.net/home.do>

5. Explore the Landscape of IT

This series of **Virtual Field Trips** helps Networking Academy students and instructors explore and understand the landscape of IT and prepare for networking careers, all without leaving the classroom. Designed to engage students early on in their Networking Academy experience, the videos cover a range of topics that encourage students to continue their education and begin early to build their career path. A companion module that accompanies each video reinforces the content from the video. For more information, visit: <http://www.cisco.com/go/virtualfieldtrip>

Learn More about IT and Networking Careers

- Certification Magazine, “Hot Jobs & Skills for 2007”
http://www.certmag.com/articles/templates/CM_gen_Article_template.asp?articleid=2521&zoneid=1
- CNNMoney.com, “Skilled Worker Shortage Hurts U.S.”
http://money.cnn.com/2007/01/04/news/economy/jobs_outlook/index.htm
- Job Data Resources
 - U.S. Department of Labor Bureau of Labor Statistics, Occupational Employment Statistics
<http://data.bls.gov/oes/search.jsp>
 - State-Level Job Projections
<http://www.projectionscentral.com>
- John Chambers on the role of technology in education
http://www.forbes.com/opinions/2008/01/23/solutions-education-chambers-oped-cx_sli_0123chambers.html
- “The Quiet Crisis,” Shirley Ann Jackson, Ph.D.; President, Rensselaer Polytechnic Institute
<http://www.rpi.edu/homepage/quietcrisis/>



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