



Cisco Networking Academy: Kansas 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 Kansas. Table 2 lists information about Networking Academy curricula in Kansas, 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 Kansas

Networking Academy students	2193
Distinct cumulative academy students (having successfully completed a course)	8533
Academy instructors	69
Total estimated cumulative contribution value to Kansas academies*	\$5,247,237

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 Kansas.

*Sources: AME/MRE reports 1211_190710.31.07 Date: November 30, 2007

Table 2. Networking Academy Curricula in Kansas

Curriculum	CCNA®	CCNP®	IT Essentials	Security	Wireless
Number of academies by curriculum	28	1	19	3	3

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. Kansas Academies and Students by Education Level

Education Level	Number of Kansas Academy Students	Percentage of Kansas Students	Number of Kansas Networking Academies	Percentage of Kansas Academies*
Secondary schools	724	33%	22	59%
Community colleges	1031	47%	13	33%
Universities	417	19%	3	8%
Other	0	0%	0	0%
Total by education level	2193	100%	38	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 Kansas.

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 Kansas

2014 projection data is not yet available for Kansas. The following data reflects 2012 projections.

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2006 [^]
	2004	2012	Numeric	Percent		
Computer Support Specialists	2110	2680	570	27	100	4750
Computer Systems Analysts	4910	5910	1000	20.4	150	3310
Network and Computer Systems Administrators	5560	6770	1210	21.8	180	3630
Network Systems and Data Communications Analysts	3040	3870	830	27.3	120	1340
Computer and Information Systems Managers	1510	2040	530	35.1	60	1820

Source: Kansas Department of Labor, 2012 Occupational Outlook, <http://laborstats.dol.ks.gov/occupatn/oo2012/2012%20outlook.pdf>

[^] 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/oeskrst.htm>



Kansas Student and Graduate Profile

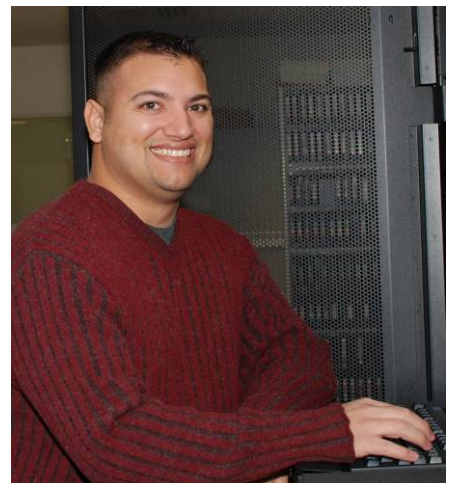
It was during Casey King's second deployment to Qatar as an Army Reserve computer technician that he first learned of Cisco® Networking Academy®. As a network administrator and medical supply shipping supervisor, Casey worked with other network administrators, most of whom held Cisco Certified Network Associate (CCNA®) certifications. Casey was so impressed with their level of knowledge that when a fellow soldier told him about the Networking Academy, Casey researched the program online to see if it was something he might pursue when he got home. Ever mindful of employment opportunities when he returned stateside, Casey knew he would go to college. Once he discovered that Fort Hays State University (FHSU) near his home town had an academy, he knew it was a "perfect fit" and decided that enrolling in the FHSU academy would be his first mission upon returning home.

Within 24 hours of receiving his discharge papers at Fort Riley, Kansas, Casey drove the two and one half hours to FHSU, enrolled in the academy, and started classes the following day. Mission accomplished. Casey firmly believes that "enrolling in the Networking Academy was and still is one of the smartest choices I made."

Casey insists that the Networking Academy was one of the best programs he's ever taken and that "the tutorials, expertise of the instructor, and true lab testing environment prepared me and others to walk out the door and feel confident establishing ourselves with a new company."

At first, Casey found the course challenging because of the amount of information covered and the time required to learn all the material. He also had a fiancée with two daughters, his military obligations, and was president of the Advanced Technology Student Organization (ATSO) within the Information Networking and Telecommunications Department at FHSU. But Casey turned the challenge into an exciting opportunity and with his focus, determination, and positive attitude, he was able to hone his time management skills and manage the stress.

Casey took full advantage of the virtual and physical labs, which he says were instrumental in getting everyone through the course. He was completely engaged in the hands-on experience of practicing on real routers, switches, and firewalls and enjoyed the camaraderie of working with his classmates. The class offered fun learning opportunities to building everyone's knowledge base, like having one team set up a network and another team try to break the network. Casey insists that the Networking Academy was one of the best programs he's ever taken and that "the tutorials, expertise of the instructor, and true lab testing environment prepared me and others to walk out the door and feel confident establishing ourselves with a new company."



Casey attributes his success to several individuals, including Mark Bannister, Chair of the Department of Information Networking and Telecommunications at FHSU, who conveyed the advantages the Networking Academy would give Casey in the corporate world. Casey's academy instructor Kevin Schaffer was "brilliant, and able to take his knowledge and bring it down to the students' level so they could understand it." And last but not least, Casey acknowledges the fellow soldier in Qatar who first told Casey about the Networking Academy. Coincidentally, they live only a few miles from each other in Kansas and have remained friends.

But the largest contributor to Casey's success was "knowing my wife and children will benefit from my labors ... knowing that what I do will enhance their life in the future." His CCNA® certification, coupled with his bachelor of science degree, has advanced Casey's civilian and military career. Casey is now an officer in the Army Reserves and a commander of a unit. He is also a network engineer with The Coleman Company, Inc., where he is responsible for administrating servers, and overseeing the open systems backup environment and disk management (SAN), SQL, Oracle, and SAP. "The Networking Academy gave me the breadth and depth of knowledge I needed in order to get my foot in the door of a great company and dive into unfamiliar territory with the confidence that I will succeed" says Casey.

Casey's advice to someone considering the Networking Academy is "If there is the slightest interest in the Network Academy, it would be in your best interest and your future to put the time, effort, and dedication into the next two to four years. ... If you are even considering information technology or networking, this is the program you need to be a part of ... it's an absolute must."

Casey is also pursuing a master's of business administration degree and starting a business with his wife. He enjoys coaching his daughter's soccer team, tae kwon do, back packing, camping, reading, playing Xbox, and computer games. Casey's advice to someone considering the Networking Academy is "If there is the slightest interest in the Network Academy, it would be in your best interest and your future to put the time, effort, and dedication into the next two to four years. The fruit of your labors will present themselves based upon your efforts. Tools are available to enhance your learning experience ... use them – faculty, staff, virtual servers, physical test labs, study guides, classmates, and the Networking Academy site. If you are even considering information technology or networking, this is the program you need to be a part of ... it's an absolute must."

More information on the academy at Fort Hays State University may be found at:

http://www.fhsu.edu/int/cisco_acad/index.shtml. For information on The Coleman Company, visit:

<http://www.coleman.com/coleman/home.asp>.



Active Cisco Networking Academies in Kansas

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 actively teaching 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 Kansas 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 Kansas Congressional Districts

Number of Kansas Congressional Districts	Number of Kansas Congressional Districts <u>with</u> Networking Academies	Number of Kansas Congressional Districts <u>without</u> Networking Academies	% Kansas Congressional District Penetration
4	4	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 Kansas 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

- Cloud County Community College (Concordia)
- *Information Enterprise Institute (Hays)
- Concordia Senior High School (Concordia)
- Dodge City Community College (Dodge City)
- *Fort Hays State University (Hays)
- Garden City Community College (Garden City)
- Hutchinson Community College (Hutchinson)
- Hutchinson Vocational Technical Center/USD 308 (Hutchinson)
- Ingalls High School (Ingalls)
- Kansas Wesleyan University (Salina)
- Northwest Kansas Technical College (Goodland)
- Southwest Kansas Technical School (Liberal)
- *Southwest Plains Regional Service Center (Sublette)
- Syracuse High School (Syracuse)

Congressional District 2

- Allen County Community College (Iola)
- Auburn-Washburn USD 437 (Topeka)
- CTEC (Ottawa)
- Kaw Area Technical School (Topeka)
- Manhattan Area Technical College (Manhattan)
- Midway USD 433 (Denton)
- Neosho County Community College (Chanute)
- USD 453 Leavenworth (Leavenworth)
- Sabetha USD 441 (Sabetha)
- West Franklin USD 287 / Pomona High School (Pomona)

Congressional District 3

- Bonner Springs High School (Bonner Springs)
- Johnson County Community College (Overland Park)
- Kansas City Kansas Area Technical School (Kansas City)
- Kansas City Kansas Community College (Kansas City)
- St. Thomas Aquinas (Overland Park)

Congressional District 4

- *Butler Community College (El Dorado)
- East High School (Wichita)
- Haysville Unified School District 261 (Wichita)
- North High School (Wichita)
- Sedan High School (Sedan)
- South High School (Wichita)
- Wichita High School Heights (Wichita)
- Wichita High School Northwest USD 259 (Wichita)



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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