



## Cisco Networking Academy: Illinois Profile

Cisco® Networking Academy® is playing a critical role in the U.S. economic recovery by preparing students for the sustainable jobs that government, education and industry all agree will fuel America's ability to innovate and compete, not just today but in the future. As the focus turns to infrastructure, Networking Academy provides students with critical IT and networking skills to design, build, and maintain the infrastructure highway that both the public and private sector now depend on for sustainability.

The new Obama administration clearly recognizes the importance that technology plays in preparing students to compete in a 21<sup>st</sup> century global economy. In a speech on January 8, 2009, at Virginia's George Mason University, President Obama highlighted the current science and technology skills gap in the United States and the urgent need to address it:

“To give our children the chance to live out their dreams in a world that’s never been more competitive, we will equip tens of thousands of schools, community colleges, and public universities with 21<sup>st</sup> century classrooms, labs, and libraries. We’ll provide new computers, new technology, and new training for teachers, so that students in Chicago and Boston can compete with kids in Beijing for the high-tech, high-wage jobs of the future.”

Cisco Networking Academy is a proven model for delivering 21<sup>st</sup> century learning because it delivers:

- rigorous and interactive curricula licensed at no cost to nonprofit educational institutions
- an e-learning platform that supports different learning styles
- web-based content available to students 24/7
- online assessments
- student performance tracking
- hands-on labs
- instructor training and support

Networking Academy is a unique public-private partnership between educational institutions, national, state and local government, and community-based organizations, currently educating more than 128,000 students in over 2,200 U.S. educational institutions.

As an education solution, Networking Academy encourages seamless educational pathways between secondary and post-secondary institutions by using curricula aligned to national and state education standards for math, language arts, and technology and industry certifications. These courses also help students prepare to pursue degrees related to science, technology, engineering, and math (STEM). Networking Academy courses provide instructors with tools to help students make the connection between their educational experience and their careers. In the United States, academies are located in high schools, technical schools, colleges, universities, and community-based organizations.

Cisco Networking Academy provides:

- IT and networking skills mapped to high-skill, high-demand, high-wage 21<sup>st</sup> century jobs across virtually every industry
- sustainable partnerships at all levels of education, including community colleges at the forefront of workforce development and retraining

- strong alignment with high school career and technical education programs that build technical skills and create pathways for high school graduates going either directly into the workforce or on to post-secondary education
- the skilled pipeline of talent required to design, build and maintain the infrastructure needed for economic recovery

Included in each state profile are Networking Academy statistics, IT workforce projections, and student/graduate stories. These state-by-state profiles will provide you with important information about the value Cisco brings to government, education and business through delivery of IT/networking skills and knowledge. Cisco Networking Academy educates the architects of today's networked economy.

Profiles are updated annually with core content, and we will continue to add student/graduate profiles. For your convenience, the library of profiles for each state, plus the District of Columbia and the United States as a whole, are accessible at <http://www.cisco.com/go/netacadresourcecenter>.

We welcome your suggestions for future profiles. Please send any questions and feedback to our U.S. Marketing Team via Nancy Bischoff at [nbischof@cisco.com](mailto:nbischof@cisco.com).

## Learn More

Table 1 lists data about academies in Illinois. Table 2 lists information about Networking Academy curricula in Illinois, 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 Illinois

<b>Networking Academy students</b>	6172
<b>Female Networking Academy students</b>	14% female
<b>Distinct cumulative academy students (having successfully completed a course)</b>	26,587
<b>Academies</b>	81
<b>Academy instructors</b>	171
<b>Total estimated cumulative contribution value to Illinois academies*</b>	\$13,762,824

Sources: AME/MRE FULL Package\_10 31 08 Quarterly Metrics Date: Nov 13, 2008

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 Illinois.

\*Sources: AME/MRE report #3616student and instructor enrollment by year 2008.11.24\_JBZ\_v8.xls

**Table 2.** Networking Academy Curricula in Illinois

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
<b>Number of academies by curriculum</b>	81	38%	88%	60%	21%

The above curricula represent the core Networking Academy curricula.

\*Includes CCNP, Security, Wireless, Java, UNIX and Panduit Network Infrastructure Essentials (PNIE)

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

Source: AME/MRE rpt #3651 as of 10.31.08 v2 Date: Dec 8, 2008

**Table 3.** Illinois Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
Illinois Students*	6172	28%	50%	21%	2%
Illinois Academies*	81	46%	36%	16%	2%

Sources: AME/MRE FULL Package\_10 31 08 Quarterly Metrics Date: Nov 13, 2008

\*For academies that self identify as more than one education level, the academies and students in this table are distributed proportionately across the education levels.

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



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## Active Cisco Networking Academies in Illinois 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 4 lists information about academies in Illinois congressional districts.

**Table 4.** Networking Academies in Illinois Congressional Districts

Number of Illinois Congressional Districts	Number of Illinois Congressional Districts <u>with</u> Networking Academies	Number of Illinois Congressional Districts <u>without</u> Networking Academies	% Illinois Congressional District Penetration
19	17	2	89%

Academies listed here have taught a class with at least three students, or adopted a new curriculum, within the last twelve months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: October 31, 2008

### Active Illinois Cisco Networking Academies by Congressional District

\* Indicates Cisco Networking Academy Training Center

Academies listed here have taught a class with at least three students, or adopted a new curriculum, within the last twelve months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: October 31, 2008

#### Congressional District 1

- Chicago State University (Chicago)
- Eisenhower High School (Blue Island)
- IBEW-NECA Technical Institute (Alsip)
- Shepard High School (Palos Heights)
- Youth Connection Leadership Academy (Chicago)

#### Congressional District 2

- \*South Suburban College - Business & Career Insttit (South Holland)
- Westwood College Calumet City (Calumet City)

#### Congressional District 3

- Argo Community High School (Summit)
- Brother Rice High School (Chicago)
- \*Moraine Valley Community College (Palos Hills)
- Oak Lawn Community High School (Oak Lawn)
- Queen of Peace High School (Burbank)
- Reavis High School (Burbank)

- Richard J. Daley College (Chicago)
- Richards High School (Oak Lawn)
- Saint Xavier University (Chicago)

#### **Congressional District 6**

- \*College of Dupage (Glen Ellyn)
- Robert Morris College O'Hare (Bensenville)
- Rolling Meadows High School (Rolling Meadows)

#### **Congressional District 7**

- CPS ITS (Chicago)
- International Academy of Design and Technology-Chi (Chicago)
- Jones College Prep High School (Chicago)
- \*Robert Morris College Chicago (Chicago)
- Westwood College Chicago CHI (ACC) (Chicago)

#### **Congressional District 8**

- College of Lake County (Grayslake)
- Lake County High School Technology Campus (Grayslake)
- Roosevelt University (Schaumburg)
- Robert Morris College Lake County (Waukegan)

#### **Congressional District 9**

- Harry S. Truman College (Chicago)
- Oakton Community College (Skokie)
- Westwood College Chicago CHO (ACC) (Chicago)

#### **Congressional District 10**

- Harper College (Palatine)
- John Hersey High School (Arlington Heights)

#### **Congressional District 11**

- DeVry University, Chicago Metro (ACC) (Tinley Park)
- Grundy Area Vocational Center (Morris)
- \*Heartland Community College (Normal)
- Joliet Junior College CIOS Department (Joliet)

### **Congressional District 12**

- Collinsville Area Vocational Center (Collinsville)
- Murphysboro High School (Murphysboro)
- O'Fallon Township High School (O'Fallon)
- \*Southwestern Illinois College (Granite City)

### **Congressional District 13**

- Andrew High School (Orland Hills)
- Carl Sandburg HS (Orland Park)
- DuPage County Joint Apprenticeship and Training Co (Warrenville)
- Robert Morris College Dupage (Aurora)
- Robert Morris College Orland Park (Orland Park)
- Westwood College Woodridge/Dupage CHD (ACC) (Woodridge)

### **Congressional District 14**

- \*Sauk Valley Community College (Dixon)

### **Congressional District 15**

- Bloomington AVC (Bloomington)
- Danville Area Community College (Danville)
- Hoopston Area High School (Hoopston)
- Livingston Area Vocational Center (Pontiac)

### **Congressional District 16**

- Auburn High School (Rockford)
- Belvidere High School (Belvidere)
- Guilford High School (Rockford)
- Harlem High School (Machesney Park)
- Jo Davies Area Vocational Center (Elizabeth)
- Kishwaukee College Cisco Networking Academy (Malta)
- \*Rock Valley College (Rockford)
- Stillman Valley High School (Stillman Valley)

### **Congressional District 17**

- Black Hawk College (Moline)
- Carl Sandburg College (Galesburg)
- Decatur Area Technical Academy Cisco Academy (Decatur)

- John Wood Community College Academy (Quincy)
- Pana High (Pana)
- Whiteside AVC (Sterling)
- \* University of Illinois – Springfield (Springfield)

### **Congressional District 18**

- \*Illinois Central College (Peoria)
- Jacksonville High School (Jacksonville)
- Pekin Community High School (Pekin)
- Richland Community College (Decatur)
- Robert Morris College Peoria (Peoria)
- Robert Morris College Springfield (Springfield)
- Tremont High School (Tremont)
- Woodruff High School (Peoria)

### **Congressional District 19**

- Capital Area Career Center Cisco Academy (Springfield)
- Kaskaskia College (Centralia)
- Lincoln Land Community College (Springfield)
- \*Rend Lake College (Ina)
- Rochester High School (Rochester)
- Southeastern Illinois College (Harrisburg)



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## Cisco Networking Academy: Workforce Development in Illinois

Cisco® Networking Academy® is ready to help U.S. workers learn critical IT and networking skills through academies located in high schools, community colleges, four-year colleges, and nontraditional settings. Developing in-demand technical skills in a timely, focused program enables students to quickly find and retain sustainable, high-paying jobs. Academy courses map to industry certifications and prepare students for technical jobs in a new, improved technical infrastructure across the nation. Even students who complete introductory courses will be prepared to work for companies that depend on a technical infrastructure for business sustainability.

“Obama’s pro-tech agenda could increase the number of technology jobs in the United States by 10 percent, adding about 300,000 high-paying IT positions.” –Katherine McGuire, VP of government relations, Business Software Alliance <sup>1</sup>

“Even with this economic downturn, the jobs outlook in IT for 2009 is better than that of many other industries, since IT is no longer at the peripheral of industries but at the core of their competitive edge, and IT will play a critical role in the infrastructure build out.” –David Foote, CEO of Foote Partners LLC, which analyzes IT wages and hiring data <sup>1</sup>

As the U.S. remains focused on economic recovery throughout 2009, there is a growing emphasis on upgrading the educational infrastructure to deliver the required knowledge and skills to build the needed technical workforce to support and maintain technology infrastructure assets and requirements. Just as the interstate highway investment created millions of construction jobs, which were then followed by maintenance and automotive jobs in the long term, so technology investments will initially create jobs necessary to design and deploy technology infrastructure, and these jobs will be followed by an array of new business opportunities.

“Investments in America’s digital infrastructure will spur significant job creation in the immediate term. An investment of \$40 billion in IT network infrastructure in 2009 will create more than 949,000 U.S. jobs, more than half of which will be in small businesses.” –Technology CEO Council press release <sup>2</sup>

Cisco Networking Academy addresses the need for 21<sup>st</sup> century teaching and learning models that prepare students to move into the pipeline of talent needed to fill these high-skill, high-wage, high-demand careers.

“We will enable students of all ages to learn in 21<sup>st</sup> century classrooms, labs, and libraries, to help our students compete with any worker in the world.” –American Recovery and Reinvestment Plan press release <sup>3</sup>

In a recent report, the Information Technology and Innovation Foundation “finds that investments in America’s digital infrastructure will spur significant job creation in the short run. Specifically, ITIF estimates that an additional investment of \$30 billion in America’s IT network infrastructure in 2009 will create approximately 949,000 U.S. jobs.” <sup>4</sup>

<sup>1</sup> Computerworld, 1/5/09, *Stimulus could create thousands of IT jobs*, <http://www.computerworld.com/action/article.do?command=viewArticleBasic&articleId=331783>

<sup>2</sup> Technology CEO Council, Wash. D.C. 1/29/09, [http://www.techceocouncil.org/index.php?option=com\\_content&task=blogsection&id=8&Itemid=159](http://www.techceocouncil.org/index.php?option=com_content&task=blogsection&id=8&Itemid=159)

<sup>3</sup> American Recovery and Reinvestment Plan press release, 1/16/09, <http://appropriations.house.gov/pdf/PressSummary01-15-09.pdf>

<sup>4</sup> ITIF, 1/7/09, *The Digital Road to Recovery: A Stimulus Plan to Create Jobs, Boost Productivity and Revitalize America*, <http://www.itif.org/index.php?id=212>

## IT Occupational Data

Table 5 lists information about IT-related occupations in the United States, and Table 6 lists this information for Illinois.

**Table 5. Selected IT-Related Occupations in the United States**

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007*
	2006	2016	Numeric	Percent		
Computer Support Specialists	552,000	624,000	71,000	21.9	24,000	525,570
Computer Systems Analysts	504,000	650,000	146,000	29	28,000	446,440
Network and Computer Systems Administrators	309,000	393,000	83,000	27	15,000	309,660
Network Systems and Data Communications Analysts	262,000	402,000	140,000	53.4	19,000	216,050
Computer and Information Systems Managers	264,000	307,000	43,000	16.4	9,000	264,990

U.S. Department of Labor, Bureau of Labor Statistics, <http://www.projectionscentral.com>, based on data availability as of October 31, 2008

\*U.S. Department of Labor, Bureau of Labor Statistics, May 2007 State Occupational Employment and Wage Estimates (US), <http://stat.bls.gov/oes/current/oesrcst.htm>

**Table 6. Selected IT-Related Occupations in Illinois**

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	21,478	25,329	3851	17.9	1048	20,310
Computer Systems Analysts	19,161	26,856	7695	40.2	1278	16,650
Network and Computer Systems Administrators	12,804	16,485	3681	28.8	660	13,890
Network Systems and Data Communications Analysts	8302	12,390	4088	49.2	578	7180
Computer and Information Systems Managers	12,756	15,003	2247	17.6	431	13,070

Source: Email from Mitch Dewey Daniels, Assistant Division Manager, Mitch.Daniels@Illinois.gov, Economic Information & Analysis, Illinois Department of Employment Security, 850 E. Madison, Third Floor, Springfield, IL 62702, Telephone: (217) 785-9047, Internet: [www.ILWorkInfo.com](http://www.ILWorkInfo.com)

^ U.S. Department of Labor, Bureau of Labor Statistics, May 2007 State Occupational Employment and Wage Estimates (by state), <http://stat.bls.gov/oes/current/oesrcst.htm>



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## Illinois Student and Graduate Profile

Derek Murray stepped into the Cisco® Certified Networking Associate (CCNA®) class at the University of Illinois-Springfield (UIS) eager to see what networking was all about. As a result of his experience in the Cisco Networking Academy®, he grew personally, fostered peer relationships, left a positive impact on his university program, and impacted his community through his volunteer work.

In 2006, Derek completed the CCNA courses and obtained his CCNA certification. He graduated from UIS with a bachelor's degree in computer science. Currently, Derek works full time at State Farm Insurance as a statistical modeler systems analyst.

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**As a result of his experience in the Cisco Networking Academy, [Derek] grew personally, fostered peer relationships, left a positive impact on his university program, and impacted his community through his volunteer work.**

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Derek's interest in technology began at age ten when he received a used computer from an uncle. He was curious to learn how the machine worked, and before long he learned how to program the computer himself. When a dial-up ISP came to his hometown, Derek was one of the first customers to sign up and enjoy the Internet.

Most of Derek's early technical skills came from troubleshooting as he tried to connect to unreliable dial-up networks and debug simple programs. He later used this experience to help out in his junior high computer lab when the school hosted "open lab nights" to provide Internet access to the community. In addition, Derek taught basic computer skills. This solidified his interest in IT as he realized the benefit of helping people do their work more efficiently.

In 2005, while in college, Derek enrolled in the Networking Academy CCNA courses. "He demonstrated high-level, critical thinking skills, grasped new ideas quickly, and produced high quality work," says Janis Rose, academy instructor at UIS. "Derek exemplified the ideals of the Cisco Networking Academy and often offered to explain difficult concepts to help his classmates better grasp the content."

Derek took advantage of every opportunity to advance his job and interpersonal skills, attending seminars on resume building, interviewing techniques, and business etiquette.

He completed the CCNA courses in 2006 and obtained his CCNA certification. That same year, he was featured with another student as the first from UIS to be admitted into the State Farm Summer Internship Program and was invited to interview for full time employment at State Farm upon his graduation. Derek's outstanding work helped pave the way for a recruiting relationship between the UIS Computer Science Department and State Farm.

In addition to his studies, Derek dedicates his time giving back to his community. Building on his interest in networking, Derek spends some of his free time volunteering at the Computer Banc where he refurbishes donated computers for financially challenged families with children in grade school.



"Seeing the faces of the families and children who receive these computers is very rewarding for me and makes me thankful to be able to help out in some sort of way. I remember when I was first given a computer and the impact it made in my life. Hopefully, I can share some of my time, talent, and fortune with others so that they can go on to a better life," says Derek.

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**Derek was featured with another student as the first from UIS to be admitted into the State Farm Summer Internship Program and was invited to interview for full time employment at State Farm upon his graduation. Derek's outstanding work helped pave the way for a recruiting relationship between the UIS Computer Science Department and State Farm.**

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Derek's current role at State Farm Insurance includes designing and writing computer applications for actuaries. Beginning in fall 2008, he intends to pursue a graduate degree in computer science and obtain additional certifications for Cisco IP Telephony and network information security.

For more information on the Cisco Networking Academy at the University of Illinois-Springfield, visit: [csc.uis.edu](http://csc.uis.edu)



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