



## Cisco Networking Academy: Louisiana 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.<sup>†</sup>

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.

<sup>†</sup> 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 Louisiana. Table 2 lists information about Networking Academy curricula in Louisiana, 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 Louisiana

<b>Networking Academy students</b>	907
<b>Distinct cumulative academy students (having successfully completed a course)</b>	9184
<b>Academy instructors</b>	54
<b>Total estimated cumulative contribution value to Louisiana academies*</b>	\$2,024,521

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 Louisiana.

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

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

<b>Curriculum</b>	<b>CCNA®</b>	<b>CCNP®</b>	<b>IT Essentials</b>	<b>Security</b>	<b>Wireless</b>
<b>Number of academies by curriculum</b>	22	1	23	0	1

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.** Louisiana Academies and Students by Education Level

<b>Education Level</b>	<b>Number of Louisiana Academy Students</b>	<b>Percentage of Louisiana Students</b>	<b>Number of Louisiana Networking Academies</b>	<b>Percentage of Louisiana Academies*</b>
<b>Secondary schools</b>	345	38%	21	59%
<b>Community colleges</b>	562	62%	14	41%
<b>Universities</b>	0	0%	0	0%
<b>Other</b>	0	0%	0	0%
<b>Total by education level</b>	907	100%	35	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 Louisiana.

**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](http://stat.bls.gov/oes/current/oes_nat.htm)

**Table 5.** Selected IT-Related Occupations in Louisiana

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2006^
	2004	2014	Numeric	Percent		
Computer Support Specialists	4220	4680	460	10	100	4220
Computer Systems Analysts	4020	4720	700	17	120	2220
Network and Computer Systems Administrators	1370	1790	420	30	60	1170
Network Systems and Data Communications Analysts	2260	3150	890	39	120	1750
Computer and Information Systems Managers	1780	2050	270	15	60	1480

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 (by state), <http://stat.bls.gov/oes/current/oeslrst.htm>





## Louisiana Student and Graduate Profile

During the middle of her Cisco® Certified Network Associate (CCNA®) training at Louisiana Technical College (LTC) Teche Area Campus in New Iberia, Louisiana, Christen Tauzin's father suddenly passed away. "He was my biggest cheerleader, always inspiring me to be my best. He told me he was proud of me every day, and when he was gone, my desire to go on with my studies was gone too." Faced with the challenge of continuing her studies and dealing with her grief, Christen reached out to family, friends, and peers in the Cisco Networking Academy® to get her through her difficult time. Through their encouragement, Christen was able to move forward and has since enjoyed a high level of satisfaction through her career achievements.

When Christen was only three, she began to amaze her parents with her ability and desire to learn about computers. Although she was still in diapers, Christen would play games and "tinker" with her father's computer. Her interest grew over the years and eventually led her to the Networking Academy at LTC. "I decided to enroll in technical college because I knew I wanted to go into the IT field. I was inspired by my aunt who worked for NASA and now Hewlett Packard. It was encouraging to see a successful woman in an environment usually surrounded by men."

Since 2004, Christen has worked at Noah's Christian Preschool where in addition to accounting and office work, she is responsible for creating ways to incorporate fun ways for children to learn technology. When she arrived at the preschool they didn't have computers, but she has since created opportunities for the children to learn about the parts of the computers and play games. "The parents are amazed at what the kids know. Even the two-year-olds can turn on the computers and use them!"

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**Since attending the Networking Academy, Christen has helped recruit other females into the program. She was recently featured on a local television program called "Check into the LTC" where she encouraged girls to enroll in the Networking Academy and pursue a career in technology.**

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When Christen first began at the Networking Academy at LTC, she was one of the only females in class. "The guys got used to me and saw my dedication. It was nice to have them come to me with questions. I quickly earned everyone's respect." Since attending the Networking Academy, Christen has helped recruit other females into the program. She was recently featured on a local television program called "Check into the LTC" where she encouraged girls to enroll in the Networking Academy and pursue a career in technology.

Christen completed the CCNA course in 2005 and the Cisco Certified Network Professional (CCNP®) course in 2007. In addition to her studies, she participated in an internship at the local SkillsUSA chapter and competed in the internetworking competition for two years, winning the silver medal the first year and the gold medal the second year. She went on to compete at the national level, where she was one of only two females competing, and placed ninth.

Christen recently graduated from LTC with an associate of applied science degree in computer network specialist, making her the first in her family to graduate from college. She plans to earn her A+ and CCNA certifications before January 2008 and will attend Louisiana State University to pursue a bachelor's of science degree in information technology. Her future education goals include obtaining a master's degree in information technology, a doctorate in the science of technology, and obtaining a Cisco Certified Internet Expert (CCIE®) certification.



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“I would ultimately like to have a career developing the technology of the future which utilizes my skills and knowledge. I am thankful for the Cisco Networking Academy because it has influenced my education and career plans by giving me a jump start to where I want to be. I know my father is proud of me.”

For more information on the Cisco Networking Academy at Louisiana Technical College Teche Area Campus, visit:

<http://www.ltc.edu/greateracadianaregion/techearea/index.htm>



## Active Cisco Networking Academies in Louisiana

### 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 Louisiana congressional districts. Custom reports by congressional districts may be run upon request by contacting Melody Buchanan at [Melody.Buchanan@ciscolearning.org](mailto:Melody.Buchanan@ciscolearning.org).

**Table 6.** Networking Academies in Louisiana Congressional Districts

Number of Louisiana Congressional Districts	Number of Louisiana Congressional Districts <u>with</u> Networking Academies	Number of Louisiana Congressional Districts <u>without</u> Networking Academies	% Louisiana Congressional District Penetration
7	7	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 Louisiana 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

- Covington High School (Covington)
- Fontainebleau High School (Mandeville)
- Grace King High School (Metairie)
- LTC - Hammond (Hammond)
- LTC- Sullivan (Bogalusa)

#### Congressional District 2

- Cuillier Career Center (Marrero)

#### Congressional District 3

- L.E. Fletcher Technical Community College (Houma)
- \*LTC Teche Area Campus (New Iberia)
- LTC Young Memorial Campus (Morgan City)
- New Iberia Senior High (New Iberia)
- St. Charles Catholic High School (La Place)

- St. Martin Parish--Cecilia (St Martinville)

#### Congressional District 4

- Caddo Career and Technology Center (Shreveport)
- Leesville High School (Leesville)
- LTC Sabine Valley Campus (Many)
- LTC- Shreveport (Shreveport)

#### Congressional District 5

- LTC-Delta Ouachita (West Monroe)

#### Congressional District 6

- \*LTC-Baton Rouge (Baton Rouge)
- Central High School (Baton Rouge)
- Joy Corporation (Zachary)
- McKinley High School (Baton Rouge)
- St. Joseph's Academy (Baton Rouge)

**Congressional District 7**

- Delta Tech (ACC) (Lake Charles)
- JDSB--LTC Morgan Smith Campus (Jennings)
- LTC T.H. Harris Campus (Opelousas)
- LTC-Lafayette (Lafayette)
- Sowela Technical Community College (Lake Charles)



## 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](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](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](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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