Cisco Networking Academy: Florida 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 21st 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 21st 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 21st 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 21st 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/netacadresourcemcenter.

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.

Learn More
Table 1 lists data about academies in Florida. Table 2 lists information about Networking Academy curricula in Florida, 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 Florida

| Networking Academy students | 6142 |
| Female Networking Academy students | 14% female |
| Distinct cumulative academy students (having successfully completed a course) | 24,905 |
| Academies | 99 |
| Academy instructors | 170 |
| Total estimated cumulative contribution value to Florida academies* | $13,150,355 |

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 Florida.

*Sources: AME/MRE report #3616student and instructor enrollment by year 2008.11.24_JBZ_v8.xls

Table 2. Networking Academy Curricula in Florida

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>All</th>
<th>ITE</th>
<th>CCNA 1, 2</th>
<th>CCNA 3, 4</th>
<th>Advanced Technologies and Other*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of academies by curriculum</td>
<td>99</td>
<td>40%</td>
<td>80%</td>
<td>49%</td>
<td>11%</td>
</tr>
</tbody>
</table>

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. Florida Academies and Students by Education Level

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Total Number</th>
<th>Secondary Schools</th>
<th>Community Colleges</th>
<th>Universities</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida Students*</td>
<td>6142</td>
<td>42%</td>
<td>44%</td>
<td>12%</td>
<td>2%</td>
</tr>
<tr>
<td>Florida Academies*</td>
<td>99</td>
<td>55%</td>
<td>33%</td>
<td>9%</td>
<td>4%</td>
</tr>
</tbody>
</table>

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

Table 4. Networking Academies in Florida Congressional Districts

<table>
<thead>
<tr>
<th>Number of Florida Congressional Districts</th>
<th>Number of Florida Congressional Districts with Networking Academies</th>
<th>Number of Florida Congressional Districts without Networking Academies</th>
<th>% Florida Congressional District Penetration</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>25</td>
<td>0</td>
<td>100%</td>
</tr>
</tbody>
</table>

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 Florida 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
- George Stone Area Vo-Tech Center (Pensacola)
- IT Institute @ Niceville High School (Niceville)
- Locklin Technical Center (Milton)
- Navarre High School (Navarre)
- Okaloosa-Walton Community College (Niceville)
- *Pensacola Junior College (Pensacola)

Congressional District 2
- Bay High School (Panama City)
- Godby High School (Tallahassee)
- FAMU-FSU College of Engineering (Tallahassee)
- *Tallahassee Community College (Tallahassee)

Congressional District 3
- A Phillips Randolph Academies of Technology (Jacksonville)
- Crooms Academy of Information Technology (Sanford)
- DeVry University, Orlando (ACC) (Orlando)
- *Florida Community College At Jacksonville (Jacksonville)
- Florida Community College At Jacksonville Downtown (Jacksonville)
- Valencia Community College, West Campus (Orlando)
- William Raines High School (Jacksonville)
- Winter Park Tech (Winter Park)

Congressional District 4
- Florida Community College At Jacksonville Kent (Jacksonville)
- Florida Community College At Jacksonville South (Jacksonville)
- Ft. White High School (Fort White)
- Lincoln High School (Tallahassee)
- *North Florida Community College (Madison)
Congressional District 5
- Pasco-Hernando Community College (New Port Richey)

Congressional District 6
- Middleburg High School (Middleburg)
- Orange Park High School (Orange Park)
- Ridgeview High School IT Academy (Orange Park)
- Santa Fe Community College (Gainesville)

Congressional District 7
- Creekside High School (St. Johns)
- Lyman High School (Longwood)
- *Mainland High School (Daytona Beach)
- *Seminole Community College ( Sanford)

Congressional District 8
- Westside Tech (Winter Garden)

Congressional District 9
- Gaither High School (Tampa)

Congressional District 10
- Pinellas Technical Education Centers (Clearwater)
- *St. Petersburg College (Clearwater)

Congressional District 11
- Business Economics Technology Academy (Beta) (St Petersburg)
- Erwin Technical Center (Tampa)
- Hillsborough Community College (Tampa)
- Leto High School (Tampa)
- Middleton High School (Tampa)
- Tampa Bay Technical High School (Tampa)

Congressional District 12
- Aparicio/Levy Technical Center (Tampa)
- Polk Community College - Lakeland (Lakeland)
- *Polk Community College - Winter Haven (Winter Haven)
- Traviss Career Center (Lakeland)

Congressional District 13
- *Manatee Community College (Bradenton)
- Manatee Technical Institute (Bradenton)
- *Sarasota County Technical Institute (Sarasota)
- Venice High School (Venice)

Congressional District 14
- International College (Naples)
- Lee County High Tech Center North (Cape Coral)
- Lorenzo Walker High School IT Academy (Naples)

Congressional District 15
- Brevard Community College (Melbourne)
- Eau Gallie High School (Melbourne)
- TECO(Kissimmee)
- *Valencia Community College, Osceola Campus (Kissimmee)

Congressional District 16
- Charlotte Technical Center (Port Charlotte)
- Lake Placid High School Academy (Lake Placid)
- South Florida Community College (Avon Park)

Congressional District 17
- McArthur High School (Hollywood)
- Miami Central High School (Miami)
- Miami Northwestern Senior High (Miami)
- Miami Dade Community College - North Campus (Miami)
- William H. Turner Technical Arts High School (Miami)

Congressional District 18
- Coral Gables Senior High School (Coral Gables)
- Coral Shores High School, Monroe County, Fl (Tavernier)
- *Miami Dade College (Miami)
• Miami Dade Community College - Wolfson Campus (Miami)
• Miami-Dade Community College - Interamerican (Miami)
• Miami-Dade Community College – International Campus (Miami)
• *Miami-Dade County Public Schools (Miami)
• Miami Jackson Senior High School (Miami)
• Miami Senior High School (Miami)
• South Miami Senior High School (Miami)
• The English Center (Miami)
• Unitech College of Technology (ACC) (Miami)

**Congressional District 19**
• Atlantic Technical Center (Margate)

**Congressional District 20**
• *Broward Community College (Davie)
• McFatter Technical Center (Davie)

**Congressional District 21**
• American Senior High School (Hialeah)
• Miami Killian High School (Miami)
• Miami Lakes Educational Center (Miami Lakes)
• Miami Palmetto Senior High School (Miami)

**Congressional District 22**
• Palm Beach Community College (Lake Worth)
• South Tech Academy (Boynton Beach)

**Congressional District 23**
• Indian River Community College (Fort Pierce)
• Lincoln College of Technology (ACC) (West Palm Beach)

**Congressional District 24**
• Cocoa High School (Cocoa)
• Titusville High School (Titusville)

**Congressional District 25**
• Felix Varela Senior High (Miami)
• G Holmes Braddock (Miami)
• John A Ferguson Senior High (Miami)
• Miami Dade Community College - Kendall (Miami)
• Miami Southridge High School (Miami)
• Miami Sunset Senior High School (Miami)
• Robert Morgan Educational Center (Miami)
Cisco Networking Academy: Workforce Development in Florida

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 1

“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 1

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 2

Cisco Networking Academy addresses the need for 21st 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 21st century classrooms, labs, and libraries, to help our students compete with any worker in the world.” –American Recovery and Reinvestment Plan press release 3

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.” 4

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

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

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

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Employment 2006</th>
<th>Employment 2016</th>
<th>Employment Change</th>
<th>Average Annual Openings</th>
<th>Occupational Employment as of May 2007*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Support Specialists</td>
<td>552,000</td>
<td>624,000</td>
<td>71,000</td>
<td>21.9</td>
<td>24,000</td>
</tr>
<tr>
<td>Computer Systems Analysts</td>
<td>504,000</td>
<td>650,000</td>
<td>146,000</td>
<td>29</td>
<td>28,000</td>
</tr>
<tr>
<td>Network and Computer Systems Administrators</td>
<td>309,000</td>
<td>393,000</td>
<td>83,000</td>
<td>27</td>
<td>15,000</td>
</tr>
<tr>
<td>Network Systems and Data Communications Analysts</td>
<td>262,000</td>
<td>402,000</td>
<td>140,000</td>
<td>53.4</td>
<td>19,000</td>
</tr>
<tr>
<td>Computer and Information Systems Managers</td>
<td>264,000</td>
<td>307,000</td>
<td>43,000</td>
<td>16.4</td>
<td>9,000</td>
</tr>
</tbody>
</table>


Table 6. Selected IT-Related Occupations in Florida

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Support Specialists</td>
<td>30,367</td>
<td>35,969</td>
<td>5602</td>
<td>0.2</td>
<td>1518</td>
</tr>
<tr>
<td>Computer Systems Analysts</td>
<td>21,951</td>
<td>29,663</td>
<td>7712</td>
<td>0.4</td>
<td>1370</td>
</tr>
<tr>
<td>Network and Computer Systems Administrators</td>
<td>13,662</td>
<td>18,249</td>
<td>4587</td>
<td>0.3</td>
<td>780</td>
</tr>
<tr>
<td>Network Systems and Data Communications Analysts</td>
<td>20,999</td>
<td>33,088</td>
<td>12,089</td>
<td>0.6</td>
<td>1650</td>
</tr>
<tr>
<td>Computer and Information Systems Managers</td>
<td>6612</td>
<td>8095</td>
<td>1483</td>
<td>0.2</td>
<td>260</td>
</tr>
</tbody>
</table>


Source: Email from William Dobson, William.Dobson@flaawi.com, Florida Agency for Workforce Innovation, MCS G-020, 107 E. Madison Street, Tallahassee, FL, 32399-4111, Telephone: (850) 245-7205, Internet: http://www.labormarketinfo.com/library/EP.htm
Florida Student and Graduate Profile

The best advice Ohamien Uhakheme received was that “luck is nothing more than preparation and opportunity.” Heeding that advice, Ohamien prepared himself early on for a career in information technology (IT) and proactively sought out opportunities. He enrolled in Cisco® Networking Academy® when he was a sophomore at Mainland High School and has been charging ahead ever since.

Ohamien is passionate about technology. Even as a high school student, he dedicated significant amounts of time to the academy, making it a real priority. “Technology is fun and challenging,” says Ohamien. “It takes time and perseverance to learn everything about a technology, but when it’s all done you end up feeling like the hero, or at the very least it seems like you’ve accomplished something for yourself or your team.”

Ohamien’s commitment to preparing himself and creating opportunities was apparent early on. He knew he would have to work his way through college, and without a car, the job would have to be on campus. So when Ohamien learned he had been admitted to the University of Central Florida, he set his sights on the University’s Network Operations Center and called to see if they were hiring. As “luck” would have it, there was an immediate job opening. Ohamien had already earned his Cisco Certified Network Associate (CCNA®) certification by the time he graduated from Mainland High School, which proved to be a distinct competitive advantage. He beat out two other candidates for the job. From Ohamien’s perspective, “I had my goals, I had my priorities, and my plan had to happen.”

“If it were not for the Networking Academy I wouldn’t be where I am today. … Everything I needed to know in my job I learned in high school through the Networking Academy. My bachelor’s degree was a necessity to get hired, but the experience I got in high school is what I use today on a day-to-day basis.”

Ohamien Uhakheme

In addition to graduating with a bachelor of science degree in information systems technology, Ohamien has earned a number of other Cisco certifications, including CCNP®, CCDA®, CQS-Rich Media®, CQS-Unity Design®, and CCVP®. He is currently working for The Revere Group, a global business and IT solutions consultancy, Cisco Premier Certified Partner, and Cisco SMB Select Partner. As a senior consultant, infrastructure engineer, and Cisco partner manager, Ohamien implements and supports Cisco products for clients, including Cisco VoIP, unified communications projects, and advanced security with Adaptive Security Algorithm and VPN.

Ohamien credits the Networking Academy for giving him the fundamentals upon which his career has been built. He says instructor Darrell Radford kept the class interesting and the labs were fun and a great opportunity to apply what he was learning. “If it were not for the Networking Academy I wouldn’t be where I am today. It was a great jump start. … Everything I needed to know in my job I learned in high school through the Networking Academy. My bachelor’s degree was a necessity to get hired, but the experience I got in high school is what I use today on a day-to-day basis.” Ohamien’s plans for the future include earning his Cisco Certified Internet Expert (CCIE®) certification in either voice or routing/switching, continuing his career with Cisco technology, and advancing within The Revere Group.
In addition to working hard, Ohamien also plays hard. When he is not working, he is likely running, playing soccer, or keeping up with his 14-month old daughter. Ohamien’s advice to others who may be considering the Networking Academy is “Your heart must really be into Cisco devices and technology. If you have that covered you should be fine. The material isn’t difficult, but it may take time to understand. Stick with it. It is well worth it.”