

# Cisco Networking Academy™ Program Curriculum

## Fundamentals of UNIX and Fundamentals of Java Programming Sponsored by Sun Microsystems

### Changing the Way People Learn

The Cisco Networking Academy Program is a comprehensive e-learning program, which provides students with the Internet technology skills essential in a global economy. The Networking Academy program delivers Web-based content, online assessment, student performance tracking, hands-on labs, instructor training and support, and preparation for industry-standard certifications.

Launched in 1997, there are over 8800 Networking Academies in 140 countries and all 50 U.S. states. Over 260,000 students are enrolled in Academies in high schools, colleges and universities, technical schools, community-based organizations, and other educational programs around the world.

### The Networking Academy Curriculum

The Networking Academy curriculum gives students at educational institutions and in-transition workers in-demand Internet technology skills for designing, building and maintaining networks.

Combining instructor-led, online education with hands-on laboratory exercises, the curriculum enables students to apply what they learn in class while working on

actual networks. From building a Web site to basic networking skills to VLAN troubleshooting, the Networking Academy curriculum prepares students for lifelong opportunities in the real world.

Curriculum success is rooted in the educational ecosystem that Cisco creates through its partnerships with schools and colleges, businesses, nonprofit organizations, international organizations, unions, and government agencies. This ecosystem allows the Networking Academy curriculum to feature optional courses, sponsored by IT industry leaders, in: UNIX; Java Programming; Web Design; PC Hardware and Software; Network Operating Systems; and Voice and Data Cabling.

Sun Microsystems is a leading provider of industrial-strength hardware, software, and services that power the Internet and allow companies worldwide to conduct their businesses in a digital world. Sun is partnering with the Cisco Networking Academy Program by sponsoring two new courses on the fundamentals of UNIX and Java programming.

### Fundamentals of UNIX

*Fundamentals of UNIX*, sponsored by Sun Microsystems, allows Cisco Networking Academies to specialize in UNIX training as they prepare students for advanced education in UNIX administration or Internet-based jobs. This 70-hour, hands-on, skills-based UNIX course is taught using the Solaris™ Operating Environment. Students will learn basic, entry-level UNIX operator skills and UNIX operating commands.

### Fundamentals of UNIX



## UNIX Competencies

Upon successful completion of this course, students receive a *Fundamentals of UNIX* Certificate of Completion. Acquired UNIX competencies include:

- Ability to use and customize the Common Desktop Environment (CDE) graphical user interface.
- Use UNIX command line with emphasis on Korn and C shell features.
- Navigate the file system; create, manage, and print files; use various CDE office productivity tools.
- Skills for using the vi and CDE text editors, backup and restore files, and directories.
- Basic user-level troubleshooting of network connectivity, system processes and file permission problems.

## Industry-recognized Certification

*Fundamentals of UNIX* provides basic, entry-level LINUX training. This course, in combination with IT Essentials II: Network Operating Systems and additional supplemental material, will help prepare students for the CompTIA Linux+ certification exam.

**Fundamentals of Java Programming**  
Sponsored by Sun Microsystems



## Fundamentals of Java Programming

*Fundamentals of Java Programming*, sponsored by Sun Microsystems, provides a 70-hour introduction to Java programming, which teaches students how to use the Java language's object-oriented technologies to solve business problems. Students will become familiar with: Java programming basics in creating classes, objects, and applications; the Java language Application Programming Interface; and Graphical User Interface applications.

Lab software requirements include: the Java 2 Platform Standard Edition and the Java 2 Platform Standard Edition Documentation, available at no cost at <http://java.sun.com/j2se/>; and the BlueJ Java Development Tool, available at no cost at <http://www.bluej.org>.

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## Java Programming Competencies

Upon successful completion of this course, students will receive a *Fundamentals of Java Programming* Certificate of Completion. Acquired Java programming competencies include:

- Understanding the history and current use of object-oriented programming and the Java language to solve business problems.
- Knowledge of Java environment and use of Java development kit.
- Application of Java language keywords and syntax to create statements for declaring and storing java data types.
- Ability to write code that implements object-oriented principles and design encapsulation, composition, and inheritance.

## Industry-recognized Certification

*Fundamentals of Java Programming* prepares students for the Sun Certified Programmer for Java 2 Platform certification exam.

## Comprehensive Internet Skills For Economic Growth

According to an April 2001 ITAA report, over the next three to five years, IT and non-IT companies will have the greatest demand for professionals with networking- and programming-related skills. Moreover, a recent study conducted by Fairfield Research, Inc. and *Certification Magazine* on the correlation between industry certifications and earning power shows that, "the more certifications the IT professional has, the more he or she tends to get paid." (*Certification Magazine*, "CertMag's Salary Survey," by Gary Gabelhouse, December, 2000.)

The Fundamentals of UNIX and the Fundamentals of Java Programming both expand and strengthen the Cisco Networking Academy curriculum, which prepares students for industry standard, as well as vendor neutral, certifications. These include Cisco Certified Network Associate (CCNA™); Cisco Certified Network Professional (CCNP™); Network+, Server+ and Linux+ certifications, administered by CompTIA, Sun Certified Programmer for Java 2 Platform, and Certified Web Design Apprentice administered by The World Organization of Webmasters (WOW). Bottom line—the Networking Academy curriculum enriches the skill set required to succeed in a changing economy.

## Visit the following Web sites for more information on:

Cisco Networking Academy Program  
[www.cisco.com/e\\_u/academy](http://www.cisco.com/e_u/academy)

Locating a Networking Academy  
[www.cisco.com/e\\_u/academylocator](http://www.cisco.com/e_u/academylocator)

Cisco Workplace Learning Initiatives  
[wpl.netaca.net](http://wpl.netaca.net)

