



**CURRICULUM GUIDE
2011-2012**

**CISCO CERTIFIED NETWORK PROFESSIONAL
(NETWORK+, CCNA, CCNP)**

**Associate in Science in Cisco Certified Network Professional
and
Certificate of Achievement in Cisco Certified Network Professional**

The Cisco Certified Network Professional (CCNP) program is designed for professionals who work with traditional Cisco technology-based networks in which LAN and WAN routers and LAN switches predominate. This includes network design, configuration, and installation. Configuration techniques increase bandwidth, improve response times, enhance reliability and quality of service (QoS), maximize performance, and improve network security.

Requirements for Associate in Science Degree:

- a) Complete Major Field and Supporting Courses with a grade of C or better.
- b) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog.
- c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

- a) Complete Major Field courses as indicated below.
- b) Complete at least six units at Ohlone College.
- c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

| | | |
|-----------|---|------------|
| CNET-150 | Network Operating Systems | 4 |
| CNET-152 | Data Communications | 2 |
| CNET-155A | Network Fundamentals | 4 |
| CNET-155B | Routing Protocols and Concepts | 4 |
| CNET-156A | LAN Switching and Wireless | 2 |
| CNET-156B | WAN Design and Support | 2 |
| CNET-157 | TCP/IP and Internetworking | 3 |
| CNET-182 | Advanced Routing | 3 |
| CNET-183 | Implementing Cisco Secure WANs CCNP II | 3 |
| CNET-184 | Advanced Switching | 3 |
| CNET-185 | Optimizing Converged Networks | 3 |
| ENGL-156 | Introduction to Report and Technical Writing OR | 3 |
| SPCH-115 | Career Communication | <u>(3)</u> |
| | | 36 |

SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following: 1-4
CNET-195A1-4 Internship

Choose 2-5 units from the following: 2-5

| | | |
|-----------|---|---|
| CNET-101 | Introduction to Computers and Information Technology | 3 |
| CNET-105 | PC Hardware and Software | 4 |
| CNET-140A | Linux Installation and Configuration | 2 |
| CNET-140B | Linux System Administration | 2 |
| CNET-142A | Linux Networking | 2 |
| CNET-142B | Linux Security | 2 |
| CNET-146 | Introduction to UNIX/Linux | 3 |
| CNET-147 | UNIX/Linux Shell Scripting | 4 |
| CNET-149 | PERL Programming | 4 |
| CNET-158 | Wireless Networks | 4 |
| CNET-160A | Microsoft Client Operating Systems | 2 |
| CNET-162A | Microsoft Server Operating Systems | 2 |
| CNET-162B | Windows Network Infrastructure Administration | 2 |
| CNET-164A | Microsoft Directory Services | 2 |
| CNET-164B | Designing Microsoft Windows Directory Services Infrastructure | 2 |
| CNET-165A | Designing a Secure Microsoft Windows Network | 2 |
| CNET-165B | Microsoft Internet Security and Acceleration Server (ISA) | 2 |
| CNET-167A | Network Application Administration I – Email (Exchange 2003) | 2 |
| CNET-168A | Network Application Administration II – Database (SQL) | 2 |
| CNET-170 | Network Security | 4 |
| CS-102 | Introduction to Computer Programming Using C++ | 4 |
| CS-104A | Introduction to .NET Programming | 4 |
| CS-170 | Java Programming | 4 |
| CS-175 | From JavaScript to AJAX | 4 |
| CS-176 | Introduction to PERL CGI Programming Development | 4 |

Total Required Units 42