



**CURRICULUM GUIDE
2007-2008**

**NETWORK ADMINISTRATOR
(NETWORK+, MCP OR UNIX, CCNA)
COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY**

**AS Degree
and
Certificate of Achievement Program**

Network Administrators manage all of the day-to-day aspects of a computer network. In addition to configuring networks they are responsible for making the network operational 24 hours a day. Tasks performed include adding/deleting users, backing up the server, loading new software applications, and maintaining security. Network Administrators are responsible for fixing an application or service, such as e-mail or printer access, when it is not working properly. Candidates for this degree option must have strong PC skills prior to enrolling in the program.

Requirements for AS Degree:

- a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
- b) Complete Plan A, B, or C General Education requirements. These 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	LAN Network Design	4
CNET-155B	Router Configuration and Routing	4
CNET-156A	Routing and Switching	2
CNET-156B	WAN Design and Support	2
CNET-157	TCP/IP and Internetworking	3
CNET-160A	Microsoft Client Operating Systems AND	2
CNET-162A	Microsoft Server Operating Systems AND	2
CNET-162B	Windows Network Infrastructure Administration AND	2
CNET-164A	Microsoft Directory Services OR	2
CNET-140A	Linux Installation and Configuration AND	(2)
CNET-140B	Linux System Administration AND	(2)
CNET-146	Introduction to UNIX/Linux AND	(3)
CNET-147	UNIX Shell Programming	(4)
ENGL-156	Introduction to Report and Technical Writing OR	3
SPCH-115	Career Communication	<u>(3)</u>
		30-33

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
CNET-105	PC Hardware and Software
CNET-140A	Linux Installation and Configuration
CNET-140B	Linux System Administration
CNET-142A	Linux Networking
CNET-142B	Linux Security
CNET-149	PERL Programming
CNET-158	Wireless Networks
CNET-164B	Designing Microsoft Windows Directory Services Infrastructure
CNET-165A	Designing a Secure Microsoft Windows Network
CNET-165B	Microsoft Internet Security and Acceleration Server (ISA)
CNET-167A	Network Application Administration I – Email (Exchange)
CNET-168A	Network Application Administration II – Database (SQL)
CNET-170	Network Security
CNET-182	Advanced Routing
CNET-183	Remote Access Networks
CNET-184	Advanced Switching
CNET-185	Internetwork Troubleshooting
CS-102	Introduction to Computer Programming Using C++
CS-104A	Visual Basic.NET Programming
CS-170	Java Programming
CS-175	Script Technology for Web Development
CS-176	CGI Programming with PERL for Web Development