



CURRICULUM GUIDE 2016-2017

NETWORK ADMINISTRATOR

Associate in Science in Network Administrator and Certificate of Achievement in Network Administrator

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 installing and configuring new equipment, including desktop PCs and servers, troubleshooting day-to-day problems and unusual issues with networked equipment, and evaluating the need for upgrades or replacements of current computer hardware and software solutions. Students who achieve this program can become employed as a network administrator in virtually all businesses and enterprises where computers and networks are used. Students are also well prepared for industry certification.

Requirements for Associate in Science Degree:

- a) Complete Major Field and Supporting Courses with a grade of C or better.
- b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.
- b) Complete at least six units at Ohlone College.
- c) Maintain a 2.0 grade point average in Major Field courses.

Student Learning Outcomes

1. Demonstrate confidence to work independently to setup, configure, and maintain a network; stand-alone or network application; and a network system.
2. Demonstrate techniques to troubleshoot situations that impact a network; stand-alone or network application; and a network system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

CNET-155A	Introduction to Networks (CCNA1)	3
CNET-155B	Routing and Switching Essentials (CCNA2)	3
CNET-156A	Scaling Networks (CCNA3)	2
CNET-156B	Connecting Networks (CCNA4)	2
CNET-162	Windows Server Installation and Configuration Administration AND	2
CNET-164	Windows Server Administration OR	2
CNET-140	Linux System Administration I (LPI-1)	(4)
CNET-170	Network Security (Security+)	4
COMM-125	Career Communication OR	3
ENGL-156	Introduction to Report and Technical Writing	<u>(3)</u>
		21

SUPPORTING COURSES

Complete one course from the following courses:

WEX-195A1	Occupational Work Experience Education OR	1
WEX-195A2	Occupational Work Experience Education OR	(2)
WEX-195A3	Occupational Work Experience Education OR	(3)
WEX-195A4	Occupational Work Experience Education	<u>(4)</u>
		1-4

Complete 5-8 units from the following courses:

CNET-105	IT Essentials (CompTIA A+)	4
CNET-108	IT Project Management	3
CNET-120	VMware: Install, Configure, Manage	2
CNET-122A	Information Storage and Management – EMC	2
CNET-122B	Cloud Infrastructure and Services	2
CNET-124A	Virtual Desktop Administration – Citrix	2
CNET-124B	Virtual Application Administration – Citrix	2
CNET-135	Oracle Database Administration	2
CNET-136	Oracle Database Backup and Recovery	2
CNET-141	Linux System Administration II (LPI-2)	4
CNET-146	Introduction to UNIX/Linux	3
CNET-158	Wireless Networks	4
CNET-166	Windows Server - Advanced Services	2
CNET-172	CCNA Security	2
CNET-180	IP Telephony and VoIP Implementations	2
CNET-182	Advanced Routing (CCNP ROUTE)	3
CNET-184	Advanced Switching (CCNP SWITCH)	3
CNET-186	Troubleshooting IP Networks (CCNP TSHOOT)	<u>3</u>
		5-8

Total Required Units: 27-33