



CURRICULUM GUIDE 2019-2020

NETWORK ADMINISTRATOR

Associate in Science 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.

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	(3) 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	3
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