



ENTERPRISE NETWORKING

Associate In Science Degree & Certificate Curriculum Requirements

ENTERPRISE NETWORKING

Upon completion of the required courses, the student is prepared to perform and assist in the creation, administration, and maintenance of a wide variety of large and small-scale networks. These include: specification preparation, network management, network design, equipment and system sales, and software development. Laboratory courses prepare students to assist in equipment installation and replacement. Classes are tailored to assist students with little current technical background and also those who are currently working in the field of computers and data communications and require additional knowledge for more specialized vocations. Specialized courses are also available to help the student train for Security +, CISSP, CWNA, CWNP, CCNA, CCNP, MCSA, MCDST and MCSE certification exams.

CAREER OPPORTUNITIES

Computer Networking, marketing, system design, specification writing, technical writing, data center control, network management, sales, equipment installation, diagnostics, & software programming.

CERTIFICATE REQUIREMENTS*

All Certificates require

- English 110, ESL 25, or equivalent
- Math 101 or equivalent
- CNET 50 or equivalent (prerequisite to all certificates)
- Additional requirements as listed below

CISCO CCNA CERTIFICATE (20 Units)

Designed to prepare the student to receive their CCNA credential. Note that the last four classes in this certificate exactly correspond to the 4 CCNA exams.

CNET 54A	Network Fundamentals and the TCP/IP Protocol Suite (CCNA 1)	(5 Units)
CNET 54B	Routers & Router Configuration (CCNA 2)	(5 Units)
CNET 54C	Switching Basics & Intermediate Routing (CCNA 3)	(5 Units)
CNET 54D	WAN Technologies (CCNA 4)	(5 Units)

CISCO CCNP CERTIFICATE (20 Units)

Designed to prepare the student to receive their CCNP credential. CCNA certification or equivalent is required to enter this program.

CNET 54G	Advanced Routing (CCNP 1)	(5 Units)
CNET 54H	Remote Access (CCNP 2)	(5 Units)
CNET 54I	Multi-layer Switching (CCNP 3)	(5 Units)
CNET 54J	Network Troubleshooting (CCNP 4)	(5 Units)

NETWORK SECURITY CERTIFICATE (25 Units)

CNET 56A is designed to prepare the student for the CompTIA Security + exam.

CNET 54A	Network Fundamentals and the TCP/IP Protocol Suite (CCNA 1)	(5 Units)
CNET 56A	Introduction to Network Security	(5 Units)

CNET 56B	Intrusion Detection, Awareness, Analysis and Prevention	(5 Units)
and		
CNET 56E	Windows XP/2000/2003 System Security	(5 Units)
CNET 56F	Linux and UNIX System Security	(5 Units)
or		
CNET 54L	CISCO Network Security I: Firewalls Access Controls and Identity Management	(5 Units)
CNET 54M	CISCO Network Security 2-VPNs, Intrusion Detection and Prevention Systems	(5 Units)

MCSA PREPARATION CERTIFICATE (20 Units)

Designed to prepare the student for the MCSA exam

CNET 75A	Microsoft Windows Vista	(5 Units)
CNET 60A	Microsoft Windows 2003 Server	(5 Units)
CNET 60B	Microsoft Windows 2003 Network Services	(5 Units)
CNET 60F	Microsoft Windows 2003 Exchange Server	(5 Units)

MCSE PREPARATION CERTIFICATE (15 Units)

Designed to prepare the student for the MCSE exams. Completion of this certificate requires the student to take all the MCSA classes as well.

CNET 60C	Microsoft Windows 2003 Network Infrastructure	(5 Units)
CNET 60D	Microsoft Windows 2003 Active Directory	(5 Units)
CNET 60E	Microsoft Windows 2003 Network Design	(5 Units)

MCDST PREPARATION CERTIFICATE (19 Units)

Designed to prepare the student for the Microsoft Certified Desktop Support Technician (MCDST) exam.

CNET 75A	Microsoft Windows Vista	(5 Units)
CNET 60G	Microsoft Windows XP OS Troubleshooting and Support	(5 Units)
CNET 60H	Supporting Users & Troubleshooting Applications on an MS Windows XP OS	(5 Units)
CNET 119	Customer Service for IT professionals	(4 Units)

WIRELESS NETWORKING CERTIFICATE (20 Units)

Designed to prepare the student for the CWNA exam.

CNET 54A	Network Fundamentals and the TCP/IP Protocol Suite (CCNA 1)	(5 Units)
CNET 65A	Wireless Network Administration	(5 Units)
CNET 65B	Wireless Network Security	(5 Units)
CNET 65C	Wireless Network Analysis	(5 Units)

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ASSOCIATE DEGREE REQUIREMENTS*

The Associate of Science degree in Enterprise Networking, requires:

- English proficiency: English 1A, ESL 26, or the equivalent
- Mathematics proficiency: Math 105 or equivalent.
- A minimum of 90 Units including:
 - All General Education requirements
 - Electives and other graduation requirement as appropriate
 - The following classes (55 units):

Core classes (45 Units)

CIS 68A	Introduction to Linux and UNIX	(5 Units)
CIS 68C1	Linux and UNIX Systems Administration	(5 Units)
CNET 54A	Network Fundamentals and the TCP/IP Protocol Suite (CCNA 1)	(5 Units)
CNET 54B	Routers & Router Configuration (CCNA 2)	(5 Units)
CNET 75A	Microsoft Windows Vista	(5 Units)
CNET 60A	Microsoft Windows 2003 Server	(5 Units)
CNET 56A	Introduction to Network Security	(5 Units)
CNET 56B	Intrusion Detection, Awareness Analysis and Prevention	(5 Units)
CNET 65A	Wireless Network Administration	(5 Units)
or		
CNET 54N	Fundamentals of CISCO Wireless LANS	(5 Units)

Plus Select one of the following 5 groups (10 Units)

MCSE group (10 Units)

CNET 60B	Microsoft Windows 2003 Network Services	(5 Units)
CNET 60F	Microsoft Windows 2003 Exchange Server	(5 Units)

CCNA group (10 Units)

CNET 54C	Switching Basics & Intermediate Routing (CCNA 3)	(5 Units)
CNET 54D	WAN Technologies (CCNA 4)	(5 Units)

UNIX group (10 Units)

CIS 68B	Linux and UNIX Shell Programming	(5 Units)
CIS 68C2	Linux and UNIX Network Admin	(5 Units)

Wireless group (10 Units)

CNET 65B	Wireless Network Security	(5 Units)
CNET 65C	Wireless Network Analysis	(5 Units)

Security group (10 Units)

CNET 56E	Windows XP/2000/2003 System Security	(5 Units)
CNET 56F	Linux and UNIX System Security	(5 Units)

* 50% of the major units must be taken within CTIS and a grade of C or better is required in these classes. All courses pertaining to the major must be taken for a letter grade. In addition, a GPA of 2.0 or higher is required in all Core and Support courses for the Degree or Certificate.

Academic Year 2007-2008