PROGRAMS

INFORMATION TECHNOLOGY - NETWORK MANAGEMENT

Contact(s): Brian Crump

The Network Management curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Coursework includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

Learning Outcomes

Upon completion of this program, students will be able to:

- Design an addressing scheme for a small to medium TCP/IP network.
- Configure, manage, and secure network equipment and services.
- Configure and manage client/server operating systems and related programs.
- Configure and manage virtual machine environments.
- Evaluate industry standard security practices

Information Technology - Network Management Degree – A25590N

First Year		
Fall		**Credit Hours**
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming, and Database	3
NET 125	Introduction to Networks	3
NET 126	Switching and Routing	3
NOS 110	Operating Systems Concepts	3
	Credit Hours	16
Spring		**Credit Hours**
CTI 120	Network and Security Foundation	3
NET 225	Enterprise Networking	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
	Credit Hours	12
Summer		**Credit Hours**
MAT 143 or MAT 171	Quantitative Literacy Precalculus Algebra	3-4
Social Science elective[*]		3
	Credit Hours	6-7
Second Year		
Fall		**Credit Hours**
CTS 115	Information Systems Business Concepts	3
ENG 111	Writing and Inquiry	3
NOS 120	Linux/UNIX Single User	3
NOS 231	Windows Administration II	3

SEC 110	Security Concepts	3
	Credit Hours	15
Spring		**Credit Hours**
CTI 289	Computer Technology Integration Capstone	3
CTS 120	Hardware/Software Support	3
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
NOS 232	Windows Administration III	3
SEC 160	Security Administration I	3
Humanitites/Fine Arts elective[*]		3
	Credit Hours	18
	Total Credit Hours	67-68

Information Technology - Network Management Degree Part-time Pathway

Term 1		**Credit Hours**
ACA 111	College Student Success	1
CTI 110	Web, Programming, and Database	3
NOS 110	Operating Systems Concepts	3
	Credit Hours	7
Term 2		**Credit Hours**
CTI 120	Network and Security Foundation	3
NOS 130	Windows Single User	3
	Credit Hours	6
Term 3		**Credit Hours**
CIS 110	Introduction to Computers	3
MAT 143 or MAT 171	Quantitative Literacy Precalculus Algebra	3-4
	Credit Hours	6-7
Term 4		**Credit Hours**
CTS 115	Information Systems Business Concepts	3
NET 125	Introduction to Networks	3
NET 126	Switching and Routing	3
	Credit Hours	9
Term 5		**Credit Hours**
NET 225	Enterprise Networking	3
NOS 230	Windows Administration I	3
	Credit Hours	6
Term 6		**Credit Hours**
ENG 111	Writing and Inquiry	3
Humanities elective[*]		3
	Credit Hours	6

Term 7		Credit Hours
NOS 120	Linux/UNIX Single User	3
NOS 231	Windows Administration II	3
SEC 110	Security Concepts	3
	Credit Hours	9
Term 8		**Credit Hours**
CTI 289	Computer Technology Integration Capstone	3
CTS 120	Hardware/Software Support	3
NOS 232	Windows Administration III	3
SEC 160	Security Administration I	3
	Credit Hours	12
Term 9		**Credit Hours**
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
Social Science elective[*]		3
	Credit Hours	6
	Total Credit Hours	67-68

IT - Network Management Diploma – D25590N

First Year		
Fall		**Credit Hours**
ACA 111	College Student Success	1
CTI 110	Web, Programming, and Database	3
CTS 115	Information Systems Business Concepts	3
NET 125	Introduction to Networks	3
NET 126	Switching and Routing	3
NOS 110	Operating Systems Concepts	3
	Credit Hours	16
Spring		**Credit Hours**
CTI 120	Network and Security Foundation	3
ENG 111	Writing and Inquiry	3
NET 225	Enterprise Networking	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
	Credit Hours	15
Summer		**Credit Hours**
CIS 110	Introduction to Computers	3
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
	Credit Hours	6
	Total Credit Hours	37

IT - CISCO Technologies Certificate – C25590DC

Courses		Credit Hours
CTS 120	Hardware/Software Support	3
NET 125	Introduction to Networks	3
NET 126	Switching and Routing	3
NET 225	Enterprise Networking	3
	Total Credit Hours	12

IT - Microsoft Technologies Certificate – C25590DM

Courses		Credit Hours
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
NET 125	Introduction to Networks	3
NOS 110	Operating Systems Concepts	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
	Total Credit Hours	16

IT - CISCO CCP

Courses		Credit Hours
CIS 110	Introduction to Computers	3
NET 125	Introduction to Networks	3
NET 126	Switching and Routing	3
NOS 110	Operating Systems Concepts	3
NOS 130	Windows Single User	3
	Total Credit Hours	15

IT - Microsoft CCP

Courses		Credit Hours
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
NET 125	Introduction to Networks	3
NOS 110	Operating Systems Concepts	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
	Total Credit Hours	16