

# INFORMATION TECHNOLOGY - NETWORK MANAGEMENT

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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 - Associate in Applied Science (p. 1)
- IT - Network Management Diploma Option (p. 1)
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- IT - Microsoft CCP (p. 2)

## Information Technology - Network Management – Associate in Applied Science – A25590N

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3

CTI 110	Web, Programming, and Database Foundation	3
NOS 110	Operating Systems Concepts	3
NET 125	Introduction to Networks (1st 8 weeks)	3
NET 126	Routing Basics (2nd 8 weeks)	3
Credit Hours		16

### Spring

CTI 120	Network and Security Foundation	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
NET 225	Routing & Switching I (1st 8 weeks)	3
NET 226	Routing and Switching II (2nd 8 weeks)	3
Credit Hours		15

### Summer

MAT 143 or MAT 171	Quantitative Literacy or Precalculus Algebra	3
Social Science Elective *		3
Credit Hours		6

### Second Year

#### Fall

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

NOS 232	Windows Administration III	3
CTI 289	Computer Technology Integration Capstone Project	3
CTS 120	Hardware/Software Support	3
ENG 112 or ENG 114	Writing and Research in the Disciplines or Professional Research & Reporting	3
SEC 160	Security Administration I	3
Humanities/Fine Arts Elective *		3
Credit Hours		18

Total Credit Hours 70

\*Please see the Suggested Humanities and Social/Behavioral Science Elective List for AAS Majors webpage.

## IT - Network Management – Diploma Option – D25590N

Gainful Employment Disclosure (<https://www.stanly.edu/ajax/gedt/ED25590N.html>)

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
ACA 111	College Student Success	1
CTI 110	Web, Programming, and Database Foundation	3
CTS 115	Information Systems Business Concepts	3

NOS 110	Operating Systems Concepts	3
NET 125	Introduction to Networks (1st 8 weeks)	3
NET 126	Routing Basics (2nd 8 weeks)	3
Credit Hours		16

**Spring**

CTI 120	Network and Security Foundation	3
NOS 130	Windows Single User	3
NOS 230	Windows Administration I	3
NET 225	Routing & Switching I (1st 8 weeks)	3
NET 226	Routing and Switching II (2nd 8 weeks)	3
ENG 111	Writing and Inquiry	3
Credit Hours		18

**Summer**

ENG 112 or ENG 114	Writing and Research in the Disciplines or Professional Research & Reporting	3
CIS 110	Introduction to Computers	3
Credit Hours		6
Total Credit Hours		40

**IT - CISCO Technologies Certificate – C25590DC**

Code	Title	Credit Hours
NET 125	Introduction to Networks	3
NET 126	Routing Basics	3
NET 225	Routing & Switching I	3
NET 226	Routing and Switching II	3
Total Credit Hours		12

**IT - Microsoft Technologies Certificate – C25590DM**

Gainful Employment Disclosure (<https://www.stanly.edu/ajax/gedt/EC25590DM.html>)

Code	Title	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 Career Pathway**

Tuition-waived program for Career & College Promise (<https://www.stanly.edu/future-students/career-college-promise>) (high school juniors and seniors)

Code	Title	Credit Hours
NET 125	Introduction to Networks	3
NET 126	Routing Basics	3

CIS 110	Introduction to Computers	3
NOS 110	Operating Systems Concepts	3
NOS 130	Windows Single User	3
Total Credit Hours		15

**IT - Microsoft CCP**

Tuition-waived program for Career & College Promise (<https://www.stanly.edu/future-students/career-college-promise>) (high school juniors and seniors)

Code	Title	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