NETWORKING ADMINISTRATION

Delivery: Daytime, Evening and Weekend Classes
Start: Fall or Spring Semester, Full- or Part-Time
Location: Rosemount Campus

Outcomes

Networking Administration A.A.S. Degree . . . . . 69 cr.
Networking Administration Diploma . . . . . 60 cr.
PC Technician Certificate . . . . . 30 cr.

Major Description

This program provides students with the knowledge and experience to install and maintain computers, servers, networks and other networking equipment to function in a variety of network environments. Combining a theory-based foundation with hands-on work, students build and manage networks, install software, configure a variety of networking devices, including switches and routers, and troubleshoot problems related to both hardware and software.

Work Environment

Graduates secure employment in entry-level positions such as network installation, network management, network maintenance, computer technician and help desk.

Potential Job Titles

- Network Administrator
- Network Manager
- Network Security Administrator
- Network Services Supervisor
- Network Specialist
- Network Systems Coordinator

Salary Data

- Average Wage: $34.05/hour
- Top Earners: $46.79/hour

NETWORKING ADMINISTRATION – A.A.S. DEGREE

This is a sample course sequence.
Please contact your program advisor regarding your academic plans.

First Year - First Semester

ISTC1015	Supporting Business Applications	3
ISTC1030	Operating Systems I	3
ISTC1045	Network Systems I: Introduction to Networking	3
ISTC1100	Business Communications	3
SPEE1020	Interpersonal Communication	3
	Total Credits	**15**

First Year - Second Semester

ISTC1010	Microcomputer Maintenance	3
ISTC1033	Operating Systems II	3
ISTC1050	Database Systems	3
ISTC1060	Security I	3
ISTC1400	Wireless Systems	3
ENGL1150	Composition I	3
	Total Credits	**18**

Second Year - First Semester

ISTC2006	Network Systems II: Routing and Switching Essentials	3
ISTC2011	Network Systems III: Scaling Networks	3
ISTC2035	Operating System III	3
ISTC2040	Database Management	3
	General Education Elective**	6
	Total Credits	**18**

Second Year - Second Semester

ISTC2016	Network Systems IV: Connecting Networks	3
ISTC2065	Security II: Firewalls	3
ISTC2070	Security III: Forensics	3
ISTC2100	Project Management (or ISTC2970 Internship)	3
ISTC2150	Virtualization, Storage, and Cloud Technologies	3
MATS1251	Statistics (or MATS1300 or PHIL1250)	3
	Total Credits	**18**
	TOTAL PROGRAM REQUIREMENTS	**69**

*** Select General Education electives from any MnTC goal area.*

NETWORKING ADMINISTRATION – DIPLOMA

This is a sample course sequence.
Please contact your program advisor regarding your academic plans.

First Year - First Semester

ISTC1015	Supporting Business Applications	3
ISTC1030	Operating Systems I	3
ISTC1045	Network Systems I: Introduction to Networking	3
ISTC1100	Business Communications	3
SPEE1020	Interpersonal Communication	3
	Total Credits	**15**

First Year - Second Semester

ISTC1010	Microcomputer Maintenance	3
ISTC1033	Operating Systems II	3
ISTC1050	Database Systems	3
ISTC1060	Security I	3
ISTC1400	Wireless Systems	3
	Total Credits	**15**

Second Year - First Semester

ISTC2006	Network Systems II: Routing and Switching Essentials	3
ISTC2011	Network Systems III: Scaling Networks	3
ISTC2035	Operating System III	3
ISTC2040	Database Management	3
ENGL1150	Composition I	3
	Total Credits	**15**

Second Year - Second Semester

ISTC2016	Network Systems IV: Connecting Networks	3
ISTC2065	Security II: Firewalls	3
ISTC2070	Security III: Forensics	3
ISTC2150	Virtualization, Storage, and Cloud Technologies	3
	General Education Elective**	3
	Total Credits	**15**
	TOTAL PROGRAM REQUIREMENTS	**60**

*** Select General Education electives from any MnTC goal area.*

PC TECHNICIAN – CERTIFICATE

This is a sample course sequence.
Please contact your program advisor regarding your academic plans.

First Year - First Semester

ISTC1015	Supporting Business Applications	3
ISTC1030	Operating Systems I	3
ISTC1045	Network Systems I: Introduction to Networking	3
ISTC1100	Business Communications	3
SPEE1020	Interpersonal Communication	3
	Total Credits	**15**

First Year - Second Semester

ISTC1010	Microcomputer Maintenance	3
ISTC1033	Operating Systems II	3
ISTC1050	Database Systems	3
ISTC1060	Security I	3
ISTC1400	Wireless Systems	3
	Total Credits	**15**
	TOTAL PROGRAM REQUIREMENTS	**30**

DAKOTA COUNTY
TECHNICAL COLLEGE

Real Education. Real Results.

2015-2016 CATALOG