

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. Degree69 cr.
 Networking Administration Diploma60 cr.
 PC Technician Certificate30 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

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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

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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

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2017-2018 CATALOG