

STEM

NETWORKING ADMINISTRATION

Delivery: Daytime and Evening Classes

Start: Fall or Spring Semester, Full- or Part-Time

AWARDS

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

See latest data at careerwise.minnstate.edu.

- Average Wage: \$69.10/hour
- Top Earners: \$83.16/hour

NETWORKING ADMINISTRATION

A.A.S. DEGREE

This is a suggested sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester 15 cr

ENGL1150	Composition I	3
ISTC1015	Supporting Business Applications	3
ISTC1030	Operating Systems I	3
ISTC1045	Network Systems I: Introduction to Networking	3
SPEE1020	Interpersonal Communication	3

First Year - Spring Semester 18 cr

ISTC1010	Microcomputer Maintenance	3
ISTC1033	Operating Systems II	3
ISTC1050	Database Systems	3
ISTC1061	Intro to IT Security	3
ISTC1100	Business Communications	3
	General Elective (any MnTC area)	3

Second Year - Fall Semester 18 cr

ISTC2006	Network Systems II: Routing and Switching Essentials	3
ISTC2011	Network Systems III: Scaling Networks	3
ISTC2035	Operating System III	3
ISTC2066	Firewalls	3
ISTC2071	Computer Forensics	3
	General Elective (any MnTC area)	3

Second Year - Spring Semester 18 cr

ISTC2016	Network Systems IV: Connecting Networks	3
ISTC2040	Database Management	3
ISTC2080	Cybersecurity	3
ISTC2100	Project Management (or ISTC2970 Internship)	3
ISTC2150	Virtualization, Storage, and Cloud Technologies	3
MATS1251	or MATS1240 or MATS1300 or PHIL1250*	3

TOTAL PROGRAM REQUIREMENTS 69

** PHIL1250 is 3 credits. MATS1251, 1240 & 1300 are 4 credits. Students who complete MATS1251, 1240, or 1300 will get 1 credit towards their General Elective total.*

NETWORKING ADMINISTRATION DIPLOMA

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First Year - Fall Semester 15 cr

ENGL1150	Composition I.....	3
ISTC1015	Supporting Business Applications.....	3
ISTC1030	Operating Systems I.....	3
ISTC1045	Network Systems I: Introduction to Networking....	3
SPEE1020	Interpersonal Communication.....	3

First Year - Spring Semester 15 cr

ISTC1010	Microcomputer Maintenance.....	3
ISTC1033	Operating Systems II.....	3
ISTC1050	Database Systems.....	3
ISTC1061	Intro to IT Security.....	3
ISTC1100	Business Communications.....	3

Second Year - Fall Semester 15 cr

ISTC2006	Network Systems II: Routing and Switching Essentials.....	3
ISTC2011	Network Systems III: Scaling Networks.....	3
ISTC2035	Operating System III.....	3
ISTC2066	Firewalls.....	3
ISTC2071	Computer Forensics.....	3

Second Year - Spring Semester 15 cr

ISTC2016	Network Systems IV: Connecting Networks.....	3
ISTC2040	Database Management.....	3
ISTC2080	Cybersecurity.....	3
ISTC2150	Virtualization, Storage, and Cloud Technologies....	3
	General Elective (any MnTC area).....	3

TOTAL PROGRAM REQUIREMENTS 60

PC TECHNICIAN CERTIFICATE

*This is a suggested sample course sequence.
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First Year - Fall Semester 15 cr

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

First Year - Spring Semester 15 cr

ISTC1010	Microcomputer Maintenance.....	3
ISTC1033	Operating Systems II.....	3
ISTC1050	Database Systems.....	3
ISTC1061	Intro to IT Security.....	3
	Technical Elective (any ISTC).....	3

TOTAL PROGRAM REQUIREMENTS 30



**DAKOTA COUNTY
TECHNICAL COLLEGE**

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This information is available in an alternate format by calling 651-423-8469 or TTY/Minnesota Relay at 1-800-627-3529.