

Network Administration and Technology

100% Online

OVERVIEW

Networking and system administration are among two of the fastest growing fields in today's global society.

In the Network Administration and Technology program at MSC Southeast, you will learn to meet the challenges of an ever-changing computer-networking environment.

At MSC Southeast, students are trained in designing, planning, implementing and managing network systems with an emphasis on a "hands-on" applied approach to learning. The hands-on approach stressed throughout the program adds a dimension necessary to acquire practical troubleshooting skills to function efficiently in this complex computer field.

MAJORS WITHIN

Network and System Administration	AAS	60 credits
IT Support Technician	Diploma	32 credits

Estimated costs for each major including tuition, books and supplies are posted on southeastmn.edu under Academics > Academic Programs by Degree.

PROGRAM OUTCOMES

1. Analyze, plan for and support operating system maintenance.
2. Evaluate, identify and implement appropriate security standards.
3. Acquire technical skills and knowledge necessary to become highly competitive candidates for job openings and promotions within information technology or related fields.
4. Design, build and manage PC networks in a multi-vendor OS environment. (Microsoft or Linux, etc.)
5. Configure and implement routers and switches to operate in a typical LAN/WAN environment.
6. Perform TCP/IP skills in using and configuring network protocols.
7. Identify, implement and configuring security best practices.



PROGRAM HIGHLIGHTS

Curriculum is designed to be "hands-on"

Fast growing, challenging field

Flexible online courses ideal for working adults

Cisco Certified and Microsoft Certified

CAREER OPPORTUNITIES

Network Administration Assistant
Microsoft Network Administrator
Cisco Certified Network Associate
Internet Network Assistant
Network Administrator Assistant
Certified Netware Administrator
Hardware and Software Technicians

JOB PLACEMENT

100%

Network Administration and Technology

Sample Program Plans

Please note that these are sample program schedules. Your schedule may vary depending upon your needs, goals, and course availability. Please meet with your advisor to plan your schedule each semester.

Network & System Administration - AAS

Course No.	Course Name	Credits
First Semester (Fall)		
NWAT1601	Windows Workstation I	2
NWAT 1602	Windows Workstation II	1
NWAT 1607	IT Fundamentals	3
NWAT 1641	Networking Fundamentals	3
NWAT 1650	Cybersecurity Fundamentals	3
Goal 1	Written and Oral Communication	3
Semester total		15
Second Semester (Spring)		
NWAT 1649	Windows Server I	3
NWAT 2100	Cisco Networking I	3
NWAT 2676	Wireless Communications	3
NWAT 2673	Linux Operating Systems	3
Goal 4	Mathematics	3
Semester total		15
Third Semester (Fall)		
NWAT 2669	Windows Server II	3
NWAT 2684	Windows Server & Desktop Security	3
NWAT 2200	Cisco Networking II	3
Goal 5	Hlstory, social and Behavioral Sciences	3
Goal 6	Humanities and Fine Arts	3
Semester total		15
Fourth Semester (Spring)		
NWAT 2110	Cloud Computing	3
NWAT 2300	Cisco Networking III	3
NWAT 2950	Network & System Administration	3
	Capstone	3
NWAT 2125	Server Virtualization	3
Gen Ed	MnTC Goal 1-10 [see advisor for courses]	3
Semester total		15
Total Required Credits -		60

IT Support Technician - Diploma

Course No.	Course Name	Credits
First Semester (Fall)		
NWAT1601	Windows Workstation I	2
NWAT 1602	Windows Workstation II	1
NWAT 1607	IT Fundamentals	3
NWAT 1641	Networking Fundamentals	3
NWAT 1650	Cybersecurity Fundamentals	3
Goal 1	Written & Oral Communication	3
Semester total		17
Second Semester (Spring)		
NWAT 1649	Windows Server I	3
NWAT 2100	Cisco Networking I	3
NWAT 2676	Wireless Communications	3
NWAT 2673	Linux Operating Systems	3
Goal 4	Mathematics	2
Gen Ed	MnTC Goal 1-10	3
Semester total		17
Total Required Credits		32