

Computer Information Systems

System Administration Specialist



Business • Management • Marketing • Technology

Career Pathways

The associate of applied science degree with specialization as a system administration specialist is designed to train students in LAN Windows Server networking, hardware maintenance, data communication concepts, various PC operating systems and Web administration fundamentals.

Job opportunities include:

- Network operating systems specialist
- Network administration specialist
- System administrator

Required General Education Courses:

Credits

19

ENGL 151 (English Composition I) or ENGL 101 (Written & Oral Communication).....	3
ENGL 152 (English Composition II) or ENGL 102 (Business Writing)	3
¹ MATH.....	3
POLSC 151 (Introduction to Political Science).....	3
² Science Elective.....	4
† CIS 130 (Introduction to Computer Information Systems).....	3

Credits

Required Courses:

39

1st Semester

† ADMN 102 (Keyboarding)	1
† CIS 132 (Introduction to Computer Programming)	2
CIS 140 (Help Desk Concepts)	3

2nd Semester

CIS 150 (Computer Science I) or CIS 152 (Visual Basic Programming)	3
CIS 208 (PC Operating Systems)	3
CIS 209 (Network Concepts)	3

3rd Semester

CIS 205 (Systems Analysis & Design)	3
CIS 228 (Linux Administration)	3
CIS 230 (Windows Server)	3

4th Semester

CIS 216 (Introduction to Computer Security)	4
CIS 220 (Hardware Maintenance)	4
CIS 234 (Advanced Windows Server).....	4
CIS 276 (Web Administration)	3

General Elective Courses (as required to complete 60 hours).

Total Degree Requirements

60

Certificate Program:

System Administration Specialist

This certificate program focuses on knowledge and skills that are essential for those specializing in network software.

Required Courses

† ADMN 102 (Keyboarding)	1
† CIS 130 (Introduction to Computer Information Systems)	3
† CIS 132 (Introduction to Computer Programming)	2
CIS 208 (PC Operating Systems)	3
CIS 209 (Network Concepts)	3
CIS 216 (Introduction to Computer Security)	4
CIS 228 (Linux Administration)	3
CIS 230 (Windows Server)	3
CIS 234 (Advanced Windows Server).....	4
CIS 276 (Web Administration)	3

Total Certificate Requirements

29

† Tech Prep course. See page 14.

¹† MATH 121 (Technical Mathematics), MATH 150 (Beginning Algebra) or a math course numbered higher than 150. It is suggested that math be taken in the first semester.

² See the science alternatives listed on page 38.

*To earn the PC support technician certificate along with an AAS network specialist program designation you need to only take CIS 142.

*To earn the AAS PC support technician program designation along with an AAS network specialist program designation you need to only take CIS 142, CIS 109 and ELEC 125. This means taking only two additional courses to earn both the AAS PC support technician program designation and the AAS network specialist program designation.