

(075) Associate in Applied Science

This program is designed to prepare students for employment in business, industry and government. Computer network specialists are responsible to oversee the design, administration, and security of organization network infrastructure. In addition to the training provided by the certificates for networking, networking specialist and networking professional, the degree provides a stronger background in business.

Work and Employment

Computer network specialists are employed by all sectors of the economy including the communications industry. Network professionals are employed in large and small organizations with diverse responsibilities including supervision of computer network specialists.

Special Considerations

Computer network specialists must have the following skills and aptitudes: communicate well, work under pressure, show good judgment, be systematic and accurate. A clear understanding of computer technology and internetworking is important.

Program Contacts at Sauk Valley Community College

Academic Advising, 815/835-6354;

Dr. Mary Lou Kidder, Professor of Computer Information Systems, 815/835-6358;

Kevin Megill, Associate Professor of Computer Information Systems, 815/835-6251;

Valarie Wittman, Professor of Computer Information Systems, 815/835-6388.

Major Field Requirements

*Networking Electives Semester hour(s) 14 hrs minimum

- ACC 101 - Financial Accounting 4 Semester hour(s)
- ACC 102 - Managerial Accounting 4 Semester hour(s)
- BUS 103 - Introduction to Business 3 Semester hour(s)
- CIS 101 - Fundamentals of Computer Information Systems 3 Semester hour(s)
- CIS 152 - Introduction to Internetworking 3 Semester hour(s)
- CIS 154 - Introduction to Internetworking Operating System 3 Semester hour(s)
- CIS 156 - Introduction to Local Area Networks 3 Semester hour(s)
- CIS 158 - Introduction to Wide Area Networks 3 Semester hour(s)
- CIS 151 - Network Certification 2 Semester hour(s)
- CIS 167 - A+ Certification 3 Semester hour(s)

Minimum Hours for Major Field Requirement: 45

Electives

* Select a minimum of 14 hours from a recommended sequence:

- 1st SEQUENCE
- CIS 190 - Windows Server Fundamentals 3 Semester hour(s)
- CIS 191 - Windows Active Directory 3 Semester hour(s)
- CIS 192 - Windows Network Infrastructure 3 Semester hour(s)
- CIS 193 - Windows Server Administrator 3 Semester hour(s)
- OR..... 2nd SEQUENCE
- CIS 252 - Advanced Routing 3 Semester hour(s)
- CIS 254 - Remote Access 3 Semester hour(s)
- CIS 256 - Multi-Layer Switching 3 Semester hour(s)

- CIS 258 - Network Troubleshooting 3 Semester hour(s)
- IN ADDITION (both sequences)
- CIS 197 - Security + Certification 3 Semester hour(s)
- OR
- CIS 250 - Beginning Linux 3 Semester hour(s)

General Education Requirements

- Communications 6 Semester hour(s)
- Humanities/Fine Arts 3 Semester hour(s)
- Social/Behavioral Science 3 Semester hour(s)
- Physical/Life Science 3 Semester hour(s)
- Mathematics (MAT 106 or higher required) 3-4 Semester hour(s)

Sem/Hrs: 18-19

SVCC Requirement - Sem/Hrs: 1

- FYE 101 - First Year Experience 1 Semester hour(s)

Total Hours Required for A.A.S. Degree: 64-65

Suggested Program

First Semester - Sem/Hrs: 16

- CIS 101 - Fundamentals of Computer Information Systems 3 Semester hour(s)
- CIS 152 - Introduction to Internetworking 3 Semester hour(s)
- CIS 154 - Introduction to Internetworking Operating System 3 Semester hour(s)
- CIS 167 - A+ Certification 3 Semester hour(s)
- ENG 101 - Composition I 3 Semester hour(s)
- FYE 101 - First Year Experience 1 Semester hour(s)

Second Semester - Sem/Hrs: 17

- Humanities/Fine Arts 3 Semester hour(s)
- Physical/Life Science 3 Semester hour(s)
- Social/Behavioral Science 3 Semester hour(s)

- CIS 151 - Network Certification 2 Semester hour(s)
- CIS 156 - Introduction to Local Area Networks 3 Semester hour(s)
- CIS 158 - Introduction to Wide Area Networks 3 Semester hour(s)

Third Semester - Sem/Hrs: 15-16

- Mathematics (MAT 106 or higher) 3-4 Semester hour(s)
- *Networking Electives 5 Semester hour(s)

- ACC 101 - Financial Accounting 4 Semester hour(s)
- BUS 103 - Introduction to Business 3 Semester hour(s)

Fourth Semester - Sem/Hrs: 16

- *Networking Electives 9 Semester hour(s)
- ACC 102 - Managerial Accounting 4 Semester hour(s)
- ENG 111 - Business and Technical Communication 3 Semester hour(s)

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