

» See Updates and Clarifications to 2017/18 Catalog

» (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 Sleger, Professor of Computer Information Systems, 815/835-6388.

Major Field Requirements

*Networking Electives Semester hour(s) 15 hrs minimum

- BUS 103 - Introduction to Business 3 Semester hour(s)
- CIS 101 - Fundamentals of Computer Information Systems 3 Semester hour(s)
- CIS 151 - Network Certification 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 167 - A+ Certification 3 Semester hour(s)
- CIS 197 - Security + Certification 3 Semester hour(s)
- CIS 250 - Beginning Linux 3 Semester hour(s)

Minimum Hours for Major Field Requirement: 45

Electives

* Select a minimum of 15 hours from a recommended sequence:

1st Sequence

- CIS 194 - Windows Operating Systems 3 Semester hour(s)
- CIS 290 - Introduction to Servers 3 Semester hour(s)
- CIS 291 - Install and Configure Servers 3 Semester hour(s)
- CIS 292 - Manage and Administer Servers 3 Semester hour(s)

- CIS 293 - Configure Advanced Services 3 Semester hour(s)

2nd Sequence

- ACC 101 - Financial Accounting 4 Semester hour(s)
- CIS 252 - Advanced Routing 3 Semester hour(s)
- CIS 256 - Multi-Layer Switching 3 Semester hour(s)
- CIS 258 - Network Troubleshooting 3 Semester hour(s)
- AND
- ACC 102 - Managerial Accounting 4 Semester hour(s)
- OR
- CIS 194 - Windows Operating Systems 3 Semester hour(s)

General Education Requirements

- Communications 6 Semester hour(s)
- Humanities/Fine Arts 3 Semester hour(s) **OR** 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: 15-16

SVCC Requirement - Sem/Hrs: 1

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

Total Hours Required for A.A.S. Degree: 61-62

Suggested Program

First Semester - Sem/Hrs: 16

- CIS 101 - Fundamentals of Computer Information Systems 3 Semester hour(s)
- CIS 151 - Network Certification 3 Semester hour(s)
- CIS 152 - Introduction to Internetworking 3 Semester hour(s)
- CIS 154 - Introduction to Internetworking Operating System 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: 15

- Humanities/Fine Arts 3 Semester hour(s) **OR** Social/Behavioral Science 3 Semester hour(s) **OR** Physical/Life Science 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 167 - A+ Certification 3 Semester hour(s)
- CIS 250 - Beginning Linux 3 Semester hour(s)

Third Semester - Sem/Hrs: 15

- *Networking Electives 9 Semester hour(s)
- Physical/Life Science 3 Semester hour(s)

- BUS 103 - Introduction to Business 3 Semester hour(s)

Fourth Semester - Sem/Hrs: 15-16

- Mathematics (MAT 106 or higher) 3-4 Semester hour(s)
- *Networking Electives 6 Semester hour(s)

- CIS 197 - Security + Certification 3 Semester hour(s)
- ENG 111 - Business and Technical Communication 3 Semester hour(s)

<\div>