

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**

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- Academic Advising, 815-835-6354
- Kevin Megill, Associate Professor of Computer Information Systems, 815-835-6251
- Greg Noack, Assistant Professor of Computer Information Systems, 815-835-6434

## **Total Hours Required - 61 Hours**

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### **Major Field Requirements - 36 Hours**

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- BUS 103 - Intro to Business (3 Semester Hours)
- CIS 101 - Fund of Computer Info Systems (3 Semester Hours)
- CIS 151 - Network Certification (3 Semester Hours)
- CIS 152 - Introduction to Networks (ITN) (3 Semester Hours)
- CIS 154 - Switching/Routing/Wireless Ess (3 Semester Hours)
- CIS 156 - Enterprise Netw/Sec/Automation (3 Semester Hours)
- CIS 167 - A+ Certification (3 Semester Hours)
- CIS 186 - Intro to Virtualization (3 Semester Hours)
- CIS 194 - Managing Modern Windows Device (3 Semester Hours)
- CIS 197 - Security + Certification (3 Semester Hours)
- CIS 250 - Beginning Linux (3 Semester Hours)
- CIS 257 - Cyber Security Analysis (3 Semester Hours)

### **Electives - 6 Hours**

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CIS 231 and CIS 235 are strongly recommended

- ACC 101 - Financial Accounting (4 Semester Hours)
- ACC 102 - Managerial Accounting (4 Semester Hours)
- CIS 187 - Intro to Cloud Computing (3 Semester Hours)
- CIS 231 - Occupational Seminar (1 Semester Hours)
- CIS 235 - Occupational Internship (3 Semester Hours)
- CIS 290 - Introduction to Servers (3 Semester Hours)
- CIS 291 - Intro to Windows Server Admin (3 Semester Hours)

### **General Education Requirements - 18 Hours**

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- Communications 6 Semester hour(s) - (ENG 101 and ENG 111 required)
- Humanities/Fine Arts 3 Semester hour(s)
- Social/Behavioral Sciences 3 Semester hour(s)
- Physical/Life Sciences 3 Semester hour(s)

- Mathematics (MAT 106 or higher required) 3 Semester hour(s)

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### **SVCC Requirement - 1 Hours**

- FYE 101 - First Year Experience (1 Semester Hours)

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## **Suggested Program**

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### **First Semester - 16 Hours**

- BUS 103 - Intro to Business (3 Semester Hours)
- CIS 101 - Fund of Computer Info Systems (3 Semester Hours)
- CIS 151 - Network Certification (3 Semester Hours)
- CIS 167 - A+ Certification (3 Semester Hours)
- ENG 101 - Composition I (3 Semester Hours)
- FYE 101 - First Year Experience (1 Semester Hours)

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### **Second Semester - 15 Hours**

- Physical/Life Science 3 Semester hour(s)
- Social/Behavioral Science 3 Semester hour(s)
- CIS 186 - Intro to Virtualization (3 Semester Hours)
- CIS 194 - Managing Modern Windows Device (3 Semester Hours)
- CIS 197 - Security + Certification (3 Semester Hours)

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### **Third Semester - 15 Hours**

- Mathematics (MAT 106 or higher) 3 Semester hour(s)
- Electives - 3 Semester hour(s) (see elective options)
- Humanities/Fine Arts - 3 Semester hour(s)
- CIS 152 - Introduction to Networks (ITN) (3 Semester Hours)
- CIS 154 - Switching/Routing/Wireless Ess (3 Semester Hours)

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### **Fourth Semester - 15 Hours**

- Electives - 3 Semester hour(s) - (see elective options)
- CIS 156 - Enterprise Netw/Sec/Automation (3 Semester Hours)
- CIS 250 - Beginning Linux (3 Semester Hours)
- CIS 257 - Cyber Security Analysis (3 Semester Hours)
- ENG 111 - Bus/Technical Communication (3 Semester Hours)