

## **(076) Associate in Applied Science**

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This program is designed to provide a graduate with the entry level job skills necessary in the computer information systems field with a specialization in microcomputer applications. Majors study the theory, design, development, and application of computer technology to computer information systems, and develop in-depth knowledge on the operation and structure of major business software packages.

### **Work and Employment**

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The rapid spread of computers and computer-based technologies in recent years has generated need for skilled, highly trained workers. Computers have become essential to the operation of stores, banks, colleges and universities, government agencies, hospitals, factories, and many other profit and non-profit entities in our society. Employment for CIS graduates is expected to grow as organizations seek new applications for computers and improvements to the software already in use. Employers are increasingly interested in employees who can combine areas of technical expertise or who are adaptable, are able to learn and incorporate new skills, and are able to find opportunities for increased efficiency through the use of automation.

### **Special Consideration**

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Workers usually have the following skills and aptitudes: work independently, quickly and accurately, think logically and use good judgment, concentrate, possess mechanical and mathematical aptitudes, patience and persistence.

### **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, Associate Professor of Computer Information Systems, 815/835-6388.

### **Major Field Requirements**

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- 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 106 - Microcomputer Spreadsheet Software 2 Semester hour(s)
- CIS 108 - Microcomputer Database Applications 2 Semester hour(s)
- CIS 109 - Introduction to Microcomputers - Windows 3 Semester hour(s)
- CIS 117 - Introduction to Web Design 1 Semester hour(s)
- CIS 130 - Information Systems Management 3 Semester hour(s)
- CIS 137 - Introduction to Desktop Publishing - Level I 1 Semester hour(s)
- CIS 148 - Business Presentation Graphics 1 Semester hour(s)
- CIS 160 - Intermediate Microcomputer Applications 3 Semester hour(s)
- CIS 167 - A+ Certification 3 Semester hour(s)
- CIS 182 - Research and the Internet 1 Semester hour(s)
- CIS 210 - Systems Analysis and Design 3 Semester hour(s)
- CIS 214 - Computer Operating Systems 3 Semester hour(s)
- CIS 229 - Database Management Systems 3 Semester hour(s)
- CIS 260 - Systems Design Practicum 3 Semester hour(s)
- OAS 141 - Word Processing with Microcomputers 2 Semester hour(s)

Minimum Hours for Major Field Requirements: 45

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General Education Requirements - Sem/Hrs: 18-19

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- 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)

SVCC Requirement - Sem/Hrs: 1

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

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

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### Suggested Program

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First Semester - Sem/Hrs: 17

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- MAT 106 Applied Mathematics (or higher Math) 3 semester hour(s)
- ACC 101 - Financial Accounting 4 Semester hour(s)
- BUS 103 - Introduction to Business 3 Semester hour(s)
- CIS 109 - Introduction to Microcomputers - Windows 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

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- Social/Behavioral Science 3 Semester hour(s)
- ACC 102 - Managerial Accounting 4 Semester hour(s)
- CIS 106 - Microcomputer Spreadsheet Software 2 Semester hour(s)
- CIS 108 - Microcomputer Database Applications 2 Semester hour(s)
- CIS 182 - Research and the Internet 1 Semester hour(s)
- CIS 229 - Database Management Systems 3 Semester hour(s)
- OAS 141 - Word Processing with Microcomputers 2 Semester hour(s)

Third Semester - Sem/Hrs: 15-16

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- Physical/Life Science 3-4 Semester hour(s)
- CIS 117 - Introduction to Web Design 1 Semester hour(s)
- CIS 130 - Information Systems Management 3 Semester hour(s)
- CIS 137 - Introduction to Desktop Publishing - Level I 1 Semester hour(s)
- CIS 148 - Business Presentation Graphics 1 Semester hour(s)
- CIS 160 - Intermediate Microcomputer Applications 3 Semester hour(s)
- CIS 210 - Systems Analysis and Design 3 Semester hour(s)

Fourth Semester - Sem/Hrs: 15

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- Humanities/Fine Arts-3

- CIS 167 - A+ Certification 3 Semester hour(s)
- CIS 214 - Computer Operating Systems 3 Semester hour(s)
- CIS 260 - Systems Design Practicum 3 Semester hour(s)
- ENG 111 - Business and Technical Communication 3 Semester hour(s)

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