Computer Information Systems (Online)

Bachelor of Science (BS)

Computer information systems (CIS) is designed to teach students software development in focused application areas. Thus, the computer information systems major has more course choices either for applying computers in different areas or for specializing in different computing disciplines. The computer information systems program offers four tracks but currently only the Business Administration track is available entirely online.

In this track, students complete the requirements for a minor in Business Administration and will be well prepared to enter the workforce and apply their computing skills.

**Computer Information Systems students will...**
- Obtain a good understanding of the fundamental principles of computing and mathematics.
- Demonstrate fundamental software engineering skills on a non-trivial project to the satisfaction of a client.
- Demonstrate programming proficiency in a modern language.
- Be well prepared to be accepted into the graduate program of their choice or to enter the workforce.

**Career Planning**
All graduates find employment in their field or start the graduate programs of their choice within a few months of graduation. Career preparation is part of the mission of Southeast. In fact, more than 90% of Southeast students participate in internships, clinical opportunities, student teaching, research assistantships, and study abroad.

Professional career counselors are available for all students. The Office of Career Services in Academic Hall 057 can provide students with professional career counseling, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

**Admission Requirements**
A high school student interested in majoring in Computer Information Systems should complete four years of mathematics that includes trigonometry and an introduction to calculus. Four years of science, which includes both chemistry and physics is highly recommended. A strong background in English is essential.

**Special Requirements with CIS**
Special tuition rates are required for this program of study. Visit [http://www.semo.edu/sfs/fee-schedule.htm](http://www.semo.edu/sfs/fee-schedule.htm)

**Personalized Pathways:**
At Southeast, we offer online courses in a traditional 16-week fall and spring semester with eight-week sessions in the first and last half of both. In addition, we offer a wintersession between fall and spring and at least six different 4, 6, and 8 week sessions over summer. (Nursing specific (NS) courses are only offered in the fall and spring semester.) Talk with an advisor to see how you can utilize these different sessions to expedite your degree completion.

**Internship and Employment Opportunities of Recent Graduates**
- Boeing
- Garmin
- Microsoft
- A T & T
- Edward Jones
- Maritz
- Big River Telephone
- Element 74
- Vintage Software

**Graduate Schools and Programs of Recent Graduates**
- University of Missouri
- Missouri State University
- Auburn University
- University of Illinois

**To learn more**
Southeast Online  
(573) 651-2766  
southeastonline@semo.edu  
online.semo.edu

**To explore**
All online degree options, visit online.semo.edu

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online.semo.edu
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### CURRICULUM CHECKLIST

**Computer Information Systems – 82 hours required**

- IS003 Computer Info Systems Assessment (0)
- IS130 Visual Basic Programming I (3)
- IS175 Information Systems I (3)
- IS245 Web Development & Security (3)
- IS275 Information Systems II (3)*
- IS320 Human Computer Interaction (3)
- IS330 Application Development II (3)
- IS340 Information Technology (3)
- IS360 Mobile Application Development (3)
- IS375 Database & Information Systems (3)
- IS445 Systems Analysis & Design (3)
- IS448 IS/IT Project Management (3)
- IS465 Management Support Systems (3)
- IS495 Senior Seminar (1)
- IU309 Professional Writing for Science/Technology (3)
- IU315 Ethics in the Cyber World (3)
- MA139 Applied Calculus (3)**
- MA223 Probability & Statistics (3)
- UI450 Capstone Experience (3)

* Substitutes for MI375 on Business Administration Minor
** Substitutes for QM 258 on Business Administration Minor

### Business Administration Track

- AC330 Accounting Information Systems (3)
- IS440 Web Design for Electronic Commerce (3)
- IS575 IS/IT Strategy & Management (3)
- MK555 Internet Marketing (3)

### Required Business Administration Minor

- AC221 Principles of Accounting I (3)***
- AC222 Principles of Accounting II (3)***
- AD 101 Introduction to Microcomputer Applications (3)+
- EC 225 Principles of Macroeconomics (3)***
- FI361 Financial Management (3)**
- MG301 Principles of Management (3)***
- MI375 Management Information Systems (3)^
- MK301 Principles of Marketing (3)***
- QM257 Business Statistics I (3)^
- QM258 Business Statistics II (3)@

*AD101 waived upon completion of IS175 in major

### University Studies Requirements (not already listed above):


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### SAMPLE FOUR-YEAR PLAN

#### Fall Semester | Spring Semester
---|---
UI100 | EC215*  
EN100  | IS175  
IS130  | MA223  
MA139  | Behavioral Systems  
Artistic Expression | Written Expression  
Total 20 | Total 20

#### FIRST YEAR

- AC221  
- CS245  
- IS245  
- IS275  
- Oral Expression  
- Literary Expression  
- Total 15 | Total 15

#### SECOND YEAR

- EC225  
- IS375  
- IS440  
- IU309  
- Living Systems  
- Total 15 | Total 15

#### THIRD YEAR

- FI361  
- IS303  
- IS495  
- IU315  
- MK555  
- Physical Systems  
- Total 18 | Total 16

#### FOURTH YEAR

- *meets Economic Systems requirement, also required for a prerequisite for the Business Administration minor
- Degree requirements for all students: a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CL001-004), and the Writing Proficiency Exam (WP003).

Refer to the Undergraduate Bulletin or DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.

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