

# Computer Information Systems (Online)

## Bachelor of Science (BS)

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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

Career preparation is part of the mission of Southeast. 100% of programs offer our students an internship, study-abroad program, clinical opportunity, student teaching or research internship.

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

### 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

### About Our Online Programs

At Southeast, if a program is designated as an online degree, you can complete your degree anywhere, without ever having to come to one of our campuses. As a student in an online class, your faculty will be the same faculty who teach in our campus classrooms. Advising for online programs and other support services are all completed online by staff who specialize in serving distance students.

### 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, <http://www.semo.edu/sfs/fee-schedule.htm>

### Transfer and Dual Credit Students

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at [semo.edu/transfercredit](http://semo.edu/transfercredit).

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This is a guide based on the 2018-2019 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

### 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)<sup>BS</sup>
- \_\_\_ AC222 Principles of Accounting II (3)<sup>BS</sup>
- \_\_\_ AD 101 Introduction to Microcomputer Applications (3)+
- \_\_\_ EC 225 Principles of Macroeconomics (3)<sup>BS</sup>
- \_\_\_ FI361 Financial Management (3)<sup>S</sup>
- \_\_\_ MG301 Principles of Management (3)<sup>WS</sup>
- \_\_\_ MI375 Management Information Systems (3)<sup>A</sup>
- \_\_\_ MK301 Principles of Marketing (3)<sup>WS</sup>
- \_\_\_ QM257 Business Statistics I (3)<sup>#</sup>
- \_\_\_ QM258 Business Statistics II (3)<sup>@</sup>

+AD101 waived upon completion of IS175 in major

<sup>A</sup> Substitute IS275 on Business Administration Minor

<sup>#</sup> Substitute MA223 on Business Administration Minor

<sup>@</sup> Substitute MA139 on Business Administration Minor

University Studies Requirements – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 3 hours
- Constitution requirement – 3 hours
- US History requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)

### SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	3	IS175	3
	EN100	3	Track course	3
	IS130	3	Track course	3
	MA139	3	University Studies	3
	University Studies	3	University Studies	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Milestone: maintain 2.0 cumulative GPA				

SECOND YEAR	IS245	3	IS330	3
	IS275	3	IS340	3
	MA223	3	Track course	3
	Track course	3	Track course	3
	University Studies	3	University Studies	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Milestone: maintain 2.0 cumulative GPA				

(summer courses are encouraged to avoid 18 hour semesters)

THIRD YEAR	IS375	3	IS320	3
	IS465	3	IS360	3
	IU309	3	IU315	3
	Track course	3	University Studies	3
	Track course	3	University Studies	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Milestone: maintain 2.0 cumulative GPA				

FOURTH YEAR	IS445	3	IS003	0
	IS448	3	IS495	1
	Track course	3	UI450	3
	Track course	3	Track course	3
	University Studies	3	University Studies	3
			University Studies	3
		University Studies	3	
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>16</b>	
Milestone: maintain 2.0 cumulative GPA				

**Degree requirements for all students:** a minimum of 120 credit hours, completion of University Studies program, completion of 39 senior division hours (300-599) and the Writing Proficiency Exam (WP003). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

Revised  
9/13/2018