Computer Information Systems

Southeast
Missouri State University ™

Bachelor of Science (BS)

Computer Information Systems

Computer information systems teaches software development in focused application areas; therefore this program has many course choices for applying computers in different areas and for specializing in different computing disciplines. Computer information systems offers four tracks: business administration, multimedia computing, instructional technology services, and applications development.

Computer Information Systems students will...

- Obtain a thorough 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 prepared to enter the workforce or be accepted into the graduate school of their choice.

Career Planning

All graduates find employment in their field or start graduate programs within a few months of graduation.

A St. Louis Outreach Office, located in Chesterfield, Mo., provides career exploration assistance, resume critiques, interview tips, job search strategies and more.

Demonstrated Career Proficiency is a Requirement of all Southeast Students		
CL001/CL002	First Semester	Complete the FOCUS2 assessment and develop a Career Action Plan.
CL003	Junior Year	Students gain information about career planning and job searching resources.
CL004	Senior Year	Students demonstrate advanced proficiency by identifying a position in their field, developing a cover letter, and tailoring a resume for the position. Materials are critiqued to ensure preparedness for a successful job search.
Career Services, located in Academic Hall 057, provides professional career advising to guide students in their career development.		

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

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.

Computer Information Systems

To learn more
Office of Admissions
(573) 651-2590
admissions@semo.edu
www.semo.edu

To explore
the College
of Science, Technology, and
Agriculture online, visit
http://www.semo.edu/costa

For advising
College of Science, Technology, and Agriculture
Advising Center (573) 651-5930
costaadvising@semo.edu

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Degree Map

This is a guide based on the 2014-2015 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as the area of specialization chosen by the student, 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 – 64-82 hours

___ CS003 Computer Info Systems Assessment (0)
___ CS245 Discrete Structures I (3)
___ CS495 Senior Seminar (1)
___ 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)
___ IS375 Database & Information Systems (3)
___ IS445 Systems Analysis & Design (3)
___ IS448 IS/IT Project Management (3)
___ IS575 IS/IT Strategy & Management (3)
___ IU309 Professional Writing for Science/Technology (3)
___ MA139 Applied Calculus (3)
___ MA223 Probability & Statistics (3)
___ UI450 Capstone Experience (3)

Choose one advising track:

___ Business Administration – requires Business Administration minor and 15 additional specified hours

___ Multimedia Computing – requires Graphics Communication Technology minor and 21 additional specified hours

___ IT Services – requires Computer Networking minor and 18 additional specified hours

___ Applications Development – requires 18 specified hours and 15 additional hours chosen with direction from Computer Science advisor

University Studies Requirements (not already listed above):

UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Literary Expression, Oral Expression, Written Expression, Behavioral Systems, Living Systems, Physical systems, Development of a Major Civilization, Economic Systems, Political Systems, Social Systems, and one IU/UI3XX.

SAMPLE FOUR-YEAR PLAN

Computer Information Systems
Requirements for the 2014-2015 Undergraduate Bulletin

	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	Artistic Expression	3
	Behavioral Systems	3	Written Expression	3
	Total	**15**	**Total**	**16**
SECOND YEAR	CS245	3	IS320	3
	IS275	3	IS340	3
	MA223	4	Track course	3
	Track course	4	Track course	3
	Oral Expression	3	Literary Expression	3
	Total	**16**	**Total**	**16**

(summer courses are encouraged to avoid 18 hour semesters)

	Fall Semester		Spring Semester	
THIRD YEAR	IS245	3	IS330	3
	IS375	3	Track course	3
	Track course	3	Living Systems	3
	Track course	3	Physical Systems	3
	IU309	3	IU/UI3XX	3
	Total	**15**	**Total**	**15**
FOURTH YEAR	IS445	3	CS003	0
	IS448	3	CS495	1
	Track course	3	IS575	3
	Track course	3	UI450	3
	Social Systems	3	Develop of a Mjr Civ	3
			Economics Systems	3
			Political Systems	3
	Total	**15**	**Total**	**16**

Degree requirements for all students: *a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CL001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the freshman and senior levels.*

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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