Computer Science Graduates Enjoy Various Employment Opportunities:

- Software Developer
- Database Administrator
- Computer Hardware Engineer
- Computer Systems Analyst
- Computer Network Architect
- Web Developer
- Information Security Analyst
- Computer Programmer
- Computer and Information Systems Managers
- Project Manager

Internships & Employment Opportunities of Recent Graduates:

- Amazon
- U.S. Nuclear Regulatory Commission
- Garmin
- Microsoft
- AT&T
- Edward Jones
- Maritz
- Big River Telephone
- Element 74
- Vintage Software
- MedAssets
- NASA
- National Labs

Graduate Schools of Recent Graduates:

- Southeast Missouri State University
- University of Missouri
- Missouri State University
- Auburn University
- University of Illinois
- Rice University
- Clemson University

Transfer and Dual Credit Students

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at http://semo.edu/transfercredit
This is a guide based on the 2020-2021 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 Degree Works to monitor their individual progress.

**CURRICULUM CHECKLIST**

"Critical Courses" are italicized and bolded. Data shows that students who have completed this course in the first two years and have earned the noted grade are most likely to complete this program of study.

**Computer Science Required Courses:**

A grade of 'C' or better is required in each course that is a prerequisite course.

84 hours – No Minor Required

**Required Courses:**

- CS 101 Introduction to Computer Programming (3)
- CS 155 Computer Science I (4)
- CS 245 Discrete Structures I (3)
- CS 265 Computer Science II (4)
- CS 266 Computer Systems & Assembly Language (4)
- CS 300 Computer Science III (3)
- CS 345 Discrete Structures II (3)
- CS 350 Analysis of Algorithms (3)
- CS 511 C and POSIX Environment (4)
- CS 380 Computer Operating Systems (3)
- CS 390 Programming Languages (3)
- CS 433 Data Analytics (3)
- CS 440 Database (3)
- CS 445 Software Engineering I (3)
- CS 480 Data Communications (3)
- CS 495 Senior Seminar (1)
- CS 499 Capstone Experience (3)
- CS 591 Advanced Artificial Intelligence (3)
- CV 201 Introduction to Cybersecurity (4)
- IU 315 Ethics in the Cyber World (3)
- MA 139 Applied Calculus (3)
- MA 223 Elementary Probability and Statistics (3)
- MA 464 Mathematical Cryptography (3)
- CSxxx 300 level and above (6)

Choose 9 hours:

- BI 163 Evolution and Ecology (4)
- CH 185 General Chemistry I (5)
- PH 120 Introductory Physics I (5)

**General Education Requirements** – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution 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)
- Civics examination

**SAMPLE FOUR-YEAR PLAN**

<table>
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<th>Course #</th>
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Milestone: maintain 2.0 cumulative GPA

**SECOND YEAR**

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Milestone: maintain 2.0 cumulative GPA

**THIRD YEAR**

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Milestone: maintain 2.0 cumulative GPA

A “Milestone” signifies a significant stage for a student in the completion of a degree.

*One of the science courses will satisfy either Living Systems or Physical Systems

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

All Harrison College of Business and Computing majors are encouraged to study abroad during their junior or senior year. Numerous opportunities exist from 10 days to a full semester. Programs are available in which all classes are taught in English and tuition rates are the same as Southeast's.