Department of Computer Science

Bachelor of Science in Computer Information Systems

The programs offered through the Department of Computer Science are the most computer-intensive programs at Southeast Missouri State University. The Department offers two programs:

- Bachelor of Science in Computer Science
- Bachelor of Science in Computer Information Systems

The goal of both programs is the education of software developers – the people who create the software tools and systems that are used by others. The Computer Science (CS) program is accredited by the Computing Accreditation Commission of ABET; [http://www.abet.org](http://www.abet.org). It focuses more deeply on the scientific, engineering, and theoretical aspects of computing. Computer Information Systems (CIS) emphasizes software development in focused application areas. Thus, the CS program has more rigorous mathematics, science and upper-level computer science courses, while the CIS program has more course choices either for applying computers in different areas or for specializing in different computing disciplines.

The CIS program offers greater flexibility through four different advising tracks; three of which focus on specific application areas and require a specific minor:

- Applications Development Track (No Minor, see below)
- Business Administration Track (Minor: Business Administration)
- IT Services Track (Minor: Computer Networking)
- Multimedia Computing Track (Minor: Graphic Communications Technology)

In the Applications Development Track, the students will be advised by faculty to choose a set of courses for specializing in areas such as web or video game development, which may include taking a minor.

CIS students take a 124-hour program which consists of:

- 43 semester hours of courses in Information Systems, Computer Science, and Technical Writing
- 6 hours of mathematics courses (applied calculus and probability & statistics)
- 33-36 hours of supplemental courses and either a minor or a set of advised courses, and
- 39-42 hours of University Studies courses.

Frequently asked questions about employment opportunities:

**Which companies hire your graduates?** They include Microsoft, Boeing, AT&T, Edward Jones, and Maritz.

**What about summer internships?** Several of our students do internships with companies interested in hiring our graduates, or at schools with summer research programs funded by the National Science Foundation.

For more information on the Computer Science Department programs, please contact us at csdept@semo.edu or 573-651-2244.

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