

BS in Computer Science

UMSL

UMSL is a NSA/DHS National Center of Academic Excellence in Cyber Defense Education



College of Arts and Sciences

Department of Mathematics and Computer Science

One University Boulevard
St. Louis, Missouri 63121-4400
Telephone: 314-516-5743
Fax: 314-516-5400

Bachelor of Science in Computer Science



The BS in Computer Science is designed for those interested in software and computer systems. Graduating seniors can find fulfilling careers in many related areas such as cybersecurity, networks, Internet programming, software and mobile apps development, data science, AI, graphics, or pursue additional graduate studies. Some courses are available online, and the entire program can be completed in the evening.

Students must satisfy all [UMSL requirements for a Bachelor of Science](#) degree. In addition, students must satisfy the [major requirements](#). All courses in MATH and CMP SCI must be completed with minimum of C-.

Student can also choose to earn one of the available [certificates](#). In addition to university scholarships, the department awards \$20k-\$40k annually in mostly [merit-based scholarships](#).

Required core courses


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|------------------------------|--|
| CMP SCI 1250 | Introduction to Computing |
| CMP SCI 2250 | Programming and Data Structures |
| CMP SCI 2261 | Object-Oriented Programming |
| CMP SCI 2700 | Computer Organization and Architecture |
| CMP SCI 2750 | System Programming and Tools |
| CMP SCI 3010 | Web Programming |
| CMP SCI 3130 | Design and Analysis of Algorithms |
| CMP SCI 4250 | Programming Languages |
| CMP SCI 4280 | Program Translation Techniques |
| CMP SCI 4500 | Introduction to the Software Profession |
| CMP SCI 4760 | Operating Systems |
| MATH 1320 | Introduction to Probability and Statistics |
| MATH 1800 | Analytic Geometry and Calculus I |
| MATH 1900 | Analytic Geometry and Calculus II |
| MATH 2450 | Elementary Linear Algebra |
| MATH 3000 | Discrete Structures |
| ENGL 3130 | Technical Writing |

Additional Electives

Five more CMP SCI courses numbered 3000 and above

For more information visit umsl.edu/cs. For career information visit umsl.edu/cs/careers.

For electronic version of this document visit <http://www.umsl.edu/cs/undergraduate-studies/BSCS.pdf>

UMSL|NOW : Some courses available online, all courses available in the evening - some every semester some on rotation.