BS in computer Science UNSL

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



College of Arts and Sciences

Department of 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 for those interested in software and computer systems. It provides a solid foundation in computing, mathematics, and specializations through elective courses and available <u>certificates</u>. Graduating seniors find fulfilling careers in many related areas such as cybersecurity, networks, Internet programming, software and mobile apps development, data science, AI, and graphics, or pursue additional graduate studies. Our vast network of alums has gone on to work for many local and internationally recognized companies, including Bayer, Boeing, Express Scripts, Google, MasterCard, Microsoft, USPS, World Wide Technologies, and more.

Students can complete the program full-time or part-time with a combination of day, evening, and/or online courses, with a possible evening and online completion. Students must also satisfy all <u>UMSL</u> requirements for a <u>BS</u> degree. In addition to university scholarships, the department awards <u>merit-based scholarships</u>.

Required core courses		Availability
<u>CMP SCI 1000</u>	Computer Science Experiences	SFP
<u>CMP SCI 1250</u>	Introduction to Computing	SFP
<u>CMP SCI 2250</u>	Programming and Data Structures	SFP
<u>CMP SCI 2261</u>	Object-Oriented Programming	SFP
<u>CMP SCI 2700</u>	Computer Organization and Architecture	SFP
<u>CMP SCI 2751</u>	File Systems, Operations, and Tools	SFP
<u>CMP SCI 3010</u>	Web Programming	SFP
<u>CMP SCI 3130</u>	Design and Analysis of Algorithms	SFP
<u>CMP SCI 3260</u>	C/C++ for Advanced Programming	SFP
<u>CMP SCI 4250</u>	Programming Languages	SFP
<u>CMP SCI 4280</u>	Program Translation Project	FP
<u>CMP SCI 4500</u>	Introduction to the Software Profession	FP
<u>CMP SCI 4760</u>	Operating Systems	FP
<u>MATH 1320</u>	Introduction to Probability and Statistics	SFP
<u>MATH 1800</u>	Analytic Geometry and Calculus I	SFP
<u>MATH 1900</u>	Analytic Geometry and Calculus II	SFP
<u>MATH 2450</u>	Elementary Linear Algebra	SFP
<u>MATH 3000</u>	Discrete Structures	SFP
ENGL 3130	Technical Writing	SFP
Additional Electives		
Four more CMP SCI courses numbered 3000 and above		

For more information, visit <u>umsl.edu/cs</u>. For careers, visit <u>umsl.edu/cs/careers</u>. This document <u>http://umsl.edu/cs/undergraduate-studies/BSCS_Flyer.pdf</u>

Typical availability: Summer (S) Fall (F) Spring (P)

