



## Bachelor of Science in Computing Technology

The BS in Computing Technology program is designed for those interested in a broad and deep computing education, but without some traditional advanced courses, and those who want to focus more on technologies and to transition to fulfilling careers. Elective courses can be grouped into one of the available [certificates](#) to solidify specialization. Graduating seniors can find in-demand 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.

The program can be completed full time or part time with a combination of day, evening and/or online courses. Each required course is offered online at least once a year. Students must also satisfy all [UMSL requirements for a BS](#) degree. In addition to university scholarships, the department awards [merit-based scholarships](#).

Required core courses		Availability
<a href="#">CMP SCI 1000</a>	Computer Science Experiences	SFP
<a href="#">CMP SCI 1250</a>	Introduction to Computing	SFP
<a href="#">CMP SCI 2250</a>	Programming and Data Structures	SFP
<a href="#">CMP SCI 2261</a>	Object-Oriented Programming	SFP
<a href="#">CMP SCI 2700</a>	Computer Organization and Architecture	SFP
<a href="#">CMP SCI 2751</a>	File Systems, Operations, and Tools	SFP
<a href="#">CMP SCI 3010</a>	Web Programming	SFP
<a href="#">CMP SCI 3702</a>	Introduction to Cyber Threats and Defense	SFP
or <a href="#">CMP SCI 3780</a>	Software Security	FP
<a href="#">CMP SCI 4010</a>	Advanced Web Development with Java	F
<a href="#">CMP SCI 4500</a>	Introduction to the Software Profession	FP
<a href="#">CMP SCI 4610</a>	Database Management Systems	F
<a href="#">INFSYS 3820</a>	Introduction to Systems Administration	F
<a href="#">INFSYS 3844</a>	Developing Business Applications in .NET	FP
<a href="#">MATH 1100</a>	Basic Calculus	SFP
or <a href="#">MATH 1800</a>	Analytic Geometry and Calculus I	SFP
<a href="#">MATH 1320</a>	Introduction to Probability and Statistics	SFP
<a href="#">MATH 3000</a>	Discrete Structures	SFP
<a href="#">ENGL 3130</a>	Technical Writing	SFP
Additional Electives		

Six more CMP SCI courses numbered 2000 and above. At most two can be in INFSYS from the [pre-approved list](#). Program also allows prior learning credit by assessment and credits from many technology-based courses such as at community colleges.

For more information visit [umsl.edu/cs](http://umsl.edu/cs). Information on [careers](#).

This document [http://umsl.edu/cs/degrees-and-programs/undergraduate-studies/BSCT\\_Flyer.pdf](http://umsl.edu/cs/degrees-and-programs/undergraduate-studies/BSCT_Flyer.pdf)

Availability (subject to change): Summer S, Fall F, Spring P, evening

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