Bachelor of Science in Computing Technology

The BS in Computing Technology program is designed for those interested in broad and deep computing education but without some traditional advanced courses, those who want to focus more on technologies and transition to fulfilling careers. 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.

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
- **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 4010**  Advanced Web Development with Java
- **CMP SCI 4500**  Introduction to the Software Profession
- **CMP SCI 4610**  Database Management Systems
- **INFSYS 3844**  Developing Business Applications in .NET
- **INFSYS 3868**  Secure Software Development
- **MATH 1320**  Introduction to Probability and Statistics
- **MATH 1800**  Analytic Geometry and Calculus I
- **MATH 3000**  Discrete Structures
- **ENGL 3130**  Technical Writing

### Additional Electives
Five more CMP SCI courses numbered 3000 and above. At most two can be in INFSYS

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/BSCT.pdf

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