



Computing Technology BS

The Bachelor of Science in Computing Technology is a newer degree program that favors exposure to a wide variety of tools and technologies over the traditional computer science background. This degree is designed for those interested in broad and deep computing education but without some traditional advanced courses. It is meant for those who want to focus more on technologies, transition to fulfilling careers, or those interested in future graduate study in an area related to computer science.

Career Outlook

Students completing this degree can find in-demand careers in many related areas such as cybersecurity, networks, Internet programming, software and mobile app development, data science, AI, graphics, or pursue additional graduate studies. According to federal and local government statistics, the demand for graduates with such technical skills exceeds supply and is expected to grow faster than average with above average salaries.

Future Career Options

- Computer Network Architect
- Computer Programmer
- Computer Support Specialist
- Computer Systems Analyst
- Database Administrator
- Information Security Analyst
- Network and Computer Systems Administrator
- Software Developer
- Web Developer

Skills Developed By Degree Completion

- Solve and compare alternative solutions to a variety of computational problems
- Design, code, and document solutions to computational problems
- Design, evaluate, and manage information technology infrastructure in an organization
- Create software systems
- Effectively communicate computing technology concepts and solutions
- Recognize and promote responsibilities in the computing/software profession
- Use multiple programming languages

Successful alumni have gone on to fulfill many of the opportunities above. Additional possibilities are taken from the Bureau of Labor Statistics. Contact an advisor to discuss additional future career options.

2024-2025 4-YEAR ACADEMIC MAP

Bachelor of Science in Computing Technology

Year
1

FALL SEMESTER (16 credit hours)

CMP SCI 1000: Computer Science Experiences (1)
ENGL 1100: First-Year Writing (3)
MATH 1030: College Algebra (3)
MATH 1035: Trigonometry (2)
GEN ED EXPLORE: Humanities and Fine Arts (3)
GEN ED EXPLORE: Social Sciences (3)
INTDSC 1003: University Studies (1)

SPRING SEMESTER (17 credit hours)

CMP SCI 1250: Introduction to Computing (3)
MATH 1800: Analytic Geometry and Calculus I (5)
GEN ED CORE: US History and Government (3)
GEN ED EXPLORE: Humanities and Fine Arts (3)
GEN ED EXPLORE: Social Sciences (3)

Year
2

FALL SEMESTER (15 credit hours)

CMP SCI 2250: Programming and Data Structures (3)
CMP SCI 2700: Computer Organization and Architecture (3)
MATH 1320: Introductory Probability and Statistics (3)
MATH 3000: Discrete Structures (3)
Cultural Diversity Requirement (3)

SPRING SEMESTER (15 credit hours)

CMP SCI 2261: Object-Oriented Programming (3)
CMP SCI 2750: System Programming and Tools (3)
CMP SCI 3010: Web Programming (3)
GEN ED CORE: Communication Proficiency (3)
GEN ED CORE: Social Sciences (3)

Year
3

FALL SEMESTER (15 credit hours)

CMP SCI 4010: Advanced Web Development with Java (3)
CMP SCI 3XXX: Computer Science Elective (3)
ENGL 3130: Technical Writing (3)
INFSYS 3844: Developing Business Application in .NET (3)
Elective (3)

SPRING SEMESTER (15 credit hours)

CMP SCI 3760: Cyber Threats and Defense (3)
CMP SCI 3XXX: Computer Science Elective (3) or INFSYS 3XXX: Information Systems Elective (3)
INFSYS 3868: Secure Software Development (3)
GEN ED EXPLORE: Humanities and Fine Arts (3)
Elective (3)

Year
4

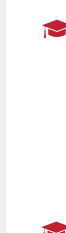
FALL SEMESTER (15 credit hours)

CMP SCI 4610: Database Management Systems (3)
CMP SCI 3XXX: Computer Science Elective (3) or INFSYS 3XXX: Information Systems Elective (3)
CMP SCI 3XXX: Computer Science Elective (3)
Elective (3)
Elective (3)

SPRING SEMESTER (13 credit hours)

CMP SCI 4500: Introduction to the Software Profession (3)
CMP SCI 3XXX: Computer Science Elective (3)
CMP SCI 3XXX: Computer Science Elective (3)
Elective (3)
Elective (1)

Check once completed



IT STARTS RIGHT NOW

This is a sample academic map for the courses to take each academic semester/session. This map is not a substitute for academic advisement. Contact your advisor when making final selections.



UNIVERSITY STUDIES

University studies is required for all first-year students and those with less than 24 credit hours.



MILESTONE COURSES

Milestone courses should be taken in the order shown to ensure you stay on a timely and accurate path toward graduation.



SUMMER AND INTERSESSION COURSES

Don't forget that summers and winter breaks are a way to fast-track your route to degree completion – and lighten your load during fall and spring!

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888-GO-2-UMSL

314-516-5451

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