



MS in Cybersecurity

Cybersecurity is currently one of the most critical issues facing individuals, organizations, governments and society. Media reports are replete with breaches of information security and the adverse consequences for all stakeholders involved. At the same time, industry and government reports indicate a continued severe shortage of skilled cybersecurity talent across both public and private sectors. A projected 1.8 million cybersecurity positions will remain unfilled worldwide by year 2022, a 20% increase from 2020.

The University of Missouri–St. Louis offers dynamic, industry-driven cybersecurity curricula at the master’s level. The Master of Science (MS) in Cybersecurity is an interdisciplinary program jointly provided by the departments of Information Systems and Technology (College of Business Administration) and Computer Science (College of Arts and Sciences). It is designed to equip students with a vital combination of business and technical knowledge, and it produces professionals who can protect information resources and manage people while making cybersecurity a priority in each technology initiative.

Master of Science in Cybersecurity

The MS in Cybersecurity is a 30-credit hour degree program and offers two emphasis areas, each with its own admission requirements. At the time of application for admission, students must choose one of the emphasis areas.

Information Systems and Technology emphasis

The Information Systems and Technology emphasis is geared toward management of cybersecurity. This emphasis is designed for professionals from a diverse set of undergraduate backgrounds who wish to transition into management of information security or general IT management related work roles. Entry requirements include basic technical foundations and/or work experience related to Information Technology (IT).

Computer Science emphasis

The Computer Science emphasis builds on the foundation of an undergraduate cybersecurity or computer science degree and expects students to have prior background in foundational computer science areas or complete some foundational courses upon entry. This emphasis is designed to be focused on technical aspects of cybersecurity and provides greater depth than that afforded at an undergraduate level.

Flexible by Design

This program was designed with the busy working adult in mind. The program can be completed in 12 to 18 months. Online coursework provides students the flexibility to complete the program's 10 courses as their schedule permits. Students can align their degree with company and career goals. Hands-on projects, research courses and state-of-the-art physical and virtual cybersecurity labs offer an exclusive experience that is tailored around the individual. UMSL's experienced advisory board guides curriculum to groom future cybersecurity professionals. Coursework is constantly being reviewed and changed based on what is happening in the industry, incorporating shifts in emerging technologies such as the cloud, internet of things and artificial intelligence. Students will learn to address modern security risks that every organization—from finance to healthcare to government and education—faces every day.

Center of Academic Excellence

The University of Missouri–St. Louis is designated as a National Center of Academic Excellence (CAE) in Cyber Defense Education by the National Security Agency (NSA). The CAE designation is awarded to universities meeting the highest standards of cybersecurity education and providing students opportunities to access industry and government scholarships geared toward CAE schools; to access career fairs specifically designed for CAE schools; and to apply 1 year of a typical 5-year work requirement for industry certifications by attending CAE designated schools.

Serious Education. Serious Value.

The MS in Cybersecurity with an IST emphasis at UMSL is earned through our internationally recognized College of Business Administration, ranked among the top 2 percent of business schools in the world thanks to dual AACSB accreditation in both business and accounting. Our faculty are highly qualified educators and researchers who hold terminal degrees from some of the world's most prestigious academic institutions. They are not only academics, but business practitioners and active consultants who bridge the classroom with the real world.

Learn more at cybersecurity.umsl.edu

Career Opportunities

Cybersecurity Specialist
Cyber-crime Analyst
Incident Analyst
IT Auditor
Cybersecurity Analyst
Cybersecurity Consultant
Penetration and Vulnerability Tester
Cybersecurity Manager
Cybersecurity Engineer
Cybersecurity Architect

College of Business Administration Graduate Business Programs

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The University of Missouri–St. Louis is the largest public research university located in Missouri's most populous and economically important region. UMSL provides high-quality, affordable education to one of the most diverse student bodies in the state. No university is better connected to the surrounding region than UMSL. Enterprises will always need to communicate with customers, and UMSL is prepared to meet that need. Choose the University of Missouri–St. Louis for advanced training in cybersecurity.

CHOOSE UMSL