



UMSL



College of Arts and Sciences

Department of Mathematics and Computer Science

One University Boulevard
St. Louis, Missouri 63121-4400
Telephone: 314-516-5743
Fax: 314-516-5400

Master of Science in Cybersecurity - Computer Science Emphasis



The program will allow graduates to pursue high-demand work roles such as Cybersecurity Specialist, Cyber Defense Analyst, Cyber Defense Incident Responder, Information Security Analyst, Vulnerability Assessment Analyst, Security Architect, among a variety of other entry to mid-level cybersecurity and computing related roles. The Computer Science emphasis is housed on the department of Mathematics and Computer Science and it focuses on more technical aspects of the field.

Students may enroll in the program on a part-time basis in the evening. Thirty credit hours (ten courses) are [required for graduation](#). Applicants must meet the general graduate admission requirements of the [Graduate School](#). Those with bachelor's degrees outside of cybersecurity or computer science must demonstrate significant proficiency in [key areas](#) using either prior coursework or experience. Applicants can be admitted with some deficiencies, which would need to be addressed by taking additional coursework during the first year of study. Applicants new to Computer Science are encouraged to take a few of the undergraduate courses before reapplying.

Students can group [elective courses](#) of interest and earn one of the available [certificates](#) with or without extra coursework.

Required core courses		6
CMP SCI 4730	Computer Networks and Communications	
CMP SCI 4760	Operating Systems	
CMP SCI 5732	Cryptography for Computer Security	
CMP SCI 5782	Advanced Information Security	
CMP SCI 5888 or 6900	Cybersecurity Capstone or related Thesis	
INFSYS 6828	Principles of Information Security	
Additional Electives		4
Four more CMP SCI courses, up to two can be in INFSYS, from a list of options.		

At most four total including core can be at the 4-thousand level.

For more information visit umsl.edu/cs.

For career information visit umsl.edu/cs/careers.

For electronic version of this document visit <http://www.ums.ed/cs/graduate-studies/MSCB.pdf>

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