

Online Master of Science in Cybersecurity (32 hours)

Curriculum Grid

INTERDISCIPLINARY CORE		
CORE (6 hours)		
These courses should be taken near the beginning of your program.		
CS 6035: Introduction to Information Security		PUBP 6725: Information Security Policies and Strategies
FLEXIBLE CORE (3 hours)		
Select one required course from a track that is different from the track in which you are enrolled.		
*Please note that CS 6750: Human Computer Integration is an elective for Policy students ONLY for a flexible core option.		
TRACK (18 hours)		
REQUIRED COURSES (12 hours)		
(select 4 courses from this list)		
INFORMATION SECURITY	CYBER-PHYSICAL SYSTEMS	POLICY
CS 6260: Applied Cryptography CS 6238: Secure Computer Systems CS 6262: Network Security <u>Information Security Lab:</u> CS 6265: Information Security Lab: Reverse Engineering and Binary Exploitation -OR- CS 6264: Information Security Lab: System and Network Defenses	ECE 6320: Power Systems Control and Operation ECE 6374: Cyber-Physical Electric Energy Systems ECE 8813: Introduction to Cyber-Physical Systems Security ECE 8823: Cyber Physical Design and Analysis	INTA 6103: International Security INTA 6450: Big Data and Security MGT 6727: Privacy for Professionals PUBP 6501: Information Policy and Management PUBP 6502: Information and Communications Technology Policy PUBP 8803: Security Incidence Response PUBP 8813: Public Policy for the Digital World PUBP 8823: Geopolitics of Cybersecurity PUBP 8833: Enterprise Cybersecurity Management
ELECTIVE COURSES (6 hours)		
(select 2 courses from this list)		
INFORMATION SECURITY	CYBER-PHYSICAL SYSTEMS	POLICY
CS 6210: Advanced Operating Systems CS 6250: Computer Networks CS 6264: Information Security Lab: System and Network Defenses CS 6265: Information Security Lab: Reverse Engineering and Binary Exploitation CS 6300: Software Development Process CS 6400: Database System Concepts & Design CS 6747: Advanced Topics in Malware Analysis CS 8803: Security Incidence Response CS 8803: Enterprise Cybersecurity Management	ECE 6323: Power System Protection ECE 6747: Advanced Topics in Malware Analysis ECE 8833: Enterprise Cybersecurity Management ECE 8843: Side-Channels and Their Role in Cybersecurity	These two electives can be taken from any track, including the courses listed in the Policy track. INTA 6742: Modeling, Simulation and Military Gaming
PRACTICAL EXPERIENCE (5 hours)		
(Prerequisites: a minimum of 8 courses, including the core prior to enrollment, and a permit. Info Sec students must also complete either CS 6265 or CS 6264.)		
CS/ECE/PUBP 6727: Practicum		

All courses are 3 credit hours, apart from the 5-credit hour practicum.

Schedule is subject to change.