Utica College – Online Master of Science in Cybersecurity

Utica College offers a Master's of Science in Cybersecurity, with specializations in (1) Cyber Policy and Intelligence, (2) Computer Forensics, (3) Cyber Operations, (4) Electronic Crime and (5) Malware Analysis. This is an online program, with 8-week courses. One course per specialization requires the student to attend a three-day residency at the Utica College campus, where students meet with faculty and fellow students to take part in projects and cybersecurity exercises. Utica College has been designated as a National Center of Academic Excellence in Information Assurance and Cyber Defense Education by the National Security Agency (NSA) and the Department of Homeland Security. This prestigious five-year designation puts Utica College in the elite ranks of colleges and universities with cybersecurity curricula, faculty and facilities that meet or exceed very stringent national criteria.

The program offers students advanced knowledge and hands-on experience in intelligence, critical infrastructures, and investigative principles as they relate to cybercrime, including:

- An understanding of the major concepts in cybersecurity, computer forensics, cyber intelligence
- Training in critical thinking and decision making skills as they specifically relate to attacks on national critical infrastructures
- The application of cyber technology to field operations
- Ethics as applied to cybersecurity operations and policy
- A practical knowledge of cybercrime investigations, including methods of maintaining the integrity of cyber evidence

The program requires the completion of 30 credit hours, and may be completed in two years.

Major Course Requirements: (18 credit hours)

CYB 605	Principles of Cybersecurity	3
CYB 610	Cyber Intelligence	3
CYB 633	Critical National Infrastructures and National Security	3
CYB 673	Principles of Cybercrime Investigations	3
CYB 695	Capstone Project I	3
CYB 696	Capstone Project II	3

Cyber Policy and Intelligence Specialization Courses: (12 credit hours)

CYB 615	Cyber Counter-intelligence	3
	Or	
CYB 681	Autonomous Cyber Operations	3
CYB 616	International Terrorism	3
	Or	
CYB 682	Cyber War and Deterrence	3
CYB 683	International Aspects of Cyber Policy	3
CYB 674	Cyber Data Fusion	3
	Or	
CYB 667	Critical Incident Command, Response and All-Hazards	3

Computer Forensics Specialization Courses (12 credit hours)

CYB 624	Essential Topics and Emerging Trends in Cybercrime Investigations	3
CYB 651	Computer Forensics and Investigation Methods	3
CYB 652	Intrusion Forensics and Network Analysis	3
CYB 653	Network Forensics	3
	Or	
CYB 659	Advanced Topics in Computer Forensics	3

Cyber Operations Specialization Courses: (12 credit hours)

CYB 640	Tactics, Techniques and Procedures	3
CYB 641	Computer and Network Operations	3
CYB 642	Access Methods and Data Hiding	3
CYB 643	Autonomous Cyber Operations	3
	Or	
CYB 649	Advanced Topics in Cyber Operations	3

Electronic Crime Specialization Courses: (12 credit hours)

FCM 535	Legal and Regulatory Issues for Fraud Management	3
FCM 627	Fraud Management: Risk and Compliance	3
FCM 631	Fraud Management and Technology	3
FCM 642	Advanced Fraud Analysis	3

Malware Analysis Specialization Courses: (12 credit hours)

CYB 617	Cyber Conflict	3
CYB 641	Computer and Network Operations	3
	Or	
CYB 643	Autonomous Cyber Operations	
CYB 689	Advanced Topics in Cybersecurity	3
CYB 691	Malware Practicum	3

Utica College is regionally accredited by the Middle States Association of Colleges and Schools.

For additional information contact:

Joseph Giordano
Chair of the Cybersecurity Undergraduate and Graduate Programs
Utica College
1600 Burrstone Road
Utica, NY 13502-4892
Phone: (315) 223-2521
Email: jgiorda@utica.edu

For additional information:
http://programs.online.utica.edu/programs/masters-cybersecurity.asp

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“Please note: Some of the Web sites linked to in this document are not federal government Web sites, and may not necessarily operate under the same laws, regulations, and policies as federal Web sites.”