

Graduate Programs in CYBERSECURITY

UMBC
AN HONORS UNIVERSITY IN MARYLAND



Master's of Professional Studies:
Cybersecurity

Post-Baccalaureate Certificate:
Cybersecurity Strategy and Policy

Post-Baccalaureate Certificate:
Cybersecurity Operations

Cybersecurity - a professionally-focused, relevant and practical graduate degree

- » Courses are designed to prepare technical professionals and others in the 'cyber' fields to fill management and leadership roles in cybersecurity, cyber operations, and/or related organizations in the government or private sector.
- » Students gain applicable skills that speak to the needs of the operational cybersecurity workforce in Maryland.
- » Cybersecurity is a critical domain of global competition that reaches across social, economic, political and military realms of influence.

When you choose UMBC Professional Programs, you can count on:

- » Classes taught by cybersecurity industry experts with significant current professional experience.
- » Flexible evening, hybrid, and/or weekend class schedule that accommodates working professionals.
- » Wide-ranging resources offered at a top-notch public research university.

Why UMBC?

- » UMBC is uniquely positioned to provide education and training that respond to the state's need for qualified technical professionals in the cybersecurity field.
- » The 2017 *U.S. News & World Report Best Colleges* guide ranks UMBC in the top five on its closely-watched Most Innovative Schools list and has recognized UMBC as a global leader in higher education.
- » UMBC is certified as a National Center of Academic Excellence in Information Assurance/Cyber Defense Education (CAE-IA/CD) as well as a Center of Academic Excellence in Information Assurance/Cyber Defense Research (CAE-R) sponsored by the National Security Agency and Department of Homeland Security (DHS).
- » UMBC provides a comprehensive and quality education at a manageable cost.



Offered in Baltimore and Rockville
cyber.umbc.edu

For Program/Academic Information:

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Rockville:
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For Application Information:

Baltimore:
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Rockville:
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Admission Requirements

M.P.S.:

- » A bachelor's degree in Computer Science, Information Systems, or a related field is preferred
- » Minimum undergraduate GPA of 3.0 on a 4.0 scale
- » GRE scores are not required for applicants with a degree from an accredited U.S. institution
- » Current professional experience in information technology or cybersecurity

Graduate Certificates:

- » A bachelor's degree in any discipline
- » Minimum undergraduate GPA of 3.0 on a 4.0 scale
- » GRE scores are not required for applicants with a degree from an accredited U.S. institution
- » Basic understanding of the internet, networked information systems and information security

International Applicants:

Please visit cyber.umbc.edu/international for detailed admissions requirements for international applicants.

- » Please pay special attention to English proficiency and testing requirements

Admission Deadlines

Fall: August 1

Spring: December 1

For detailed application process please visit: cyber.umbc.edu

Offered in Baltimore and Rockville. (schedules may vary)

Master's Program

Master's of Professional Studies (M.P.S.): Cybersecurity

30 Credits (10 courses)

Required Courses 18 Credits

CYBR 620: Introduction to Cybersecurity

CYBR 623: Cybersecurity Law & Policy

CYBR 624: Cybersecurity Project

CYBR 650: Managing Cyber Operations

CYBR 652: Enterprise Security

CYBR 658: Risk Analysis and Compliance



Elective Courses (Select 4) 12 Credits

CYBR 621: Cyber Warfare

CYBR 622: Global Cyber Capabilities and Trends

CYBR 644: Cyber Practitioner Development Lab **

CYBR 691: Special Topics in Cybersecurity

CMPE 685: Principles of Communications Networks *

CMSC 644: Information Assurance *

CMSC 652: Cryptography and Data Security *

CMSC 687: Introduction to Network Security *

CMSC 691: Special Topics in Computer Science *

Other relevant graduate course(s) approved by the Cybersecurity Graduate Program Director.

** Offered at Baltimore campus only | ** Pass or fail only. Not a graded course.*

Certificate Programs

Post-Baccalaureate Certificate: Cybersecurity Strategy & Policy

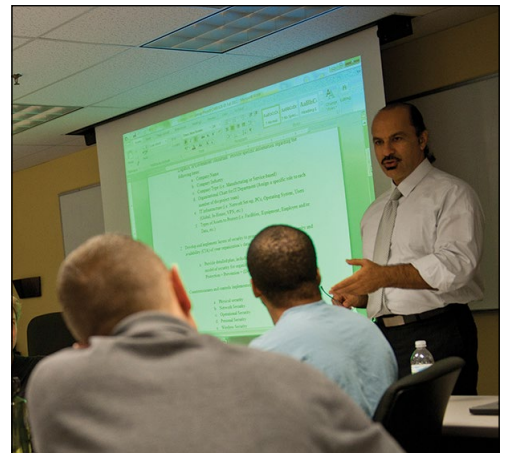
Required Courses (12 Credits)

CYBR 620: Introduction to Cybersecurity

CYBR 622: Global Cyber Capabilities and Trends

CYBR 621: Cyber Warfare

CYBR 623: Cybersecurity Law & Policy



Post-Baccalaureate Certificate: Cybersecurity Operations Required Courses (12 Credits)

CYBR 620: Introduction to Cybersecurity

CYBR 650: Managing Cybersecurity Operations

CYBR 658: Risk Analysis and Compliance

One Additional Cybersecurity Elective

All credits earned in this graduate certificate may be applied to the Master of Professional Studies (M.P.S.): Cybersecurity

This academic program is a participant in the U.S. Department of Education Gainful Employment program. For more information, <https://gradschool.umbc.edu/resources/careers/gainfulemploy/>

Office of Professional Programs

UMBC's Office of Professional Programs offers a broad array of professionally focused master's degree and certificate programs that address industry needs while anticipating future opportunities.

professionalprograms.umbc.edu