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: cyber.umbc.edu
Rockville: umbc.edu/cybersg

For Program/Academic Information:
Baltimore: Dr. Rick Forno | Program Director rick.forno@umbc.edu
Rockville: Dr. Behnam Shariati | Asst. Program Director shariati@umbc.edu | 301-738-6019

For Application Information:
Baltimore: Dustin Hodgson | Director dustin@umbc.edu | 410-455-3056
Rockville: sgprofessionalprograms@umbc.edu
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 642: Introduction to Digital Forensics
CYBR 644: Cyber Practitioner Development Lab**
CYBR 691: Special Topics in Cybersecurity

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

Post-Baccalaureate Certificate: Digital Forensics*
Required Courses (12 Credits)
CYBR 620: Introduction to Cybersecurity or CMSC equivalent (Ie, CMSC 626, CMSC 687)
CYBR 641: Computer Crime Investigations
CYBR 642: Introduction to Digital Forensics
CYBR 643: Advanced Digital Forensics

* Offered at Baltimore campus only

All credits earned in these graduate certificates 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/