

# Graduate Programs in CYBERSECURITY

**UMBC**  
AN HONORS UNIVERSITY IN MARYLAND



**Masters in 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.
- » For six years running, UMBC was ranked #1 in the U.S. New and World Report's list of 'national up-and-coming' universities, and in 2015 ranked #4 as 'most innovative schools.'
- » 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  
[umbc.edu/cyber](http://umbc.edu/cyber)

### For Program/Academic Information:

Baltimore:  
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Rockville:  
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### For Application Information:

Baltimore:  
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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 [umbc.edu/cyber/international](http://umbc.edu/cyber/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: [umbc.edu/cyber](http://umbc.edu/cyber)

**Offered in Baltimore and Rockville. (schedules may vary)**

## **Master's Program**

### **Master in 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 658: Risk Analysis and Compliance  
ENMG 652: Management, Leadership, and Communication



#### **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

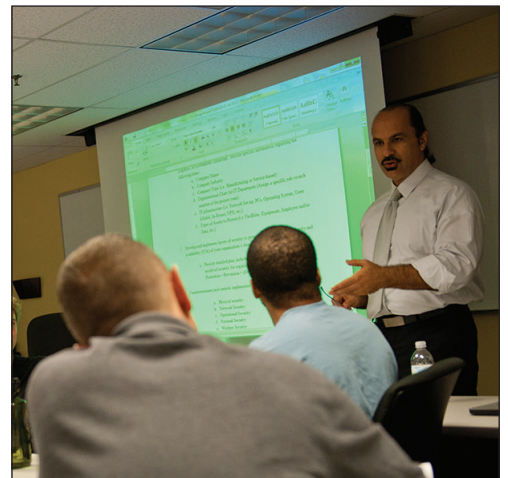
*Other relevant graduate course(s) approved by the Cybersecurity Graduate Program Director.*

## **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*

## **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.

[umbc.edu/professionalprograms](http://umbc.edu/professionalprograms)