



MASTER OF SCIENCE IN CYBERSECURITY MANAGEMENT

PREPARE FOR LEADERSHIP ROLES DIRECTING AND PROTECTING CRITICAL INFORMATION INFRASTRUCTURES

As cybercrime and security breaches make headlines on a regular basis, the need for well-educated cybersecurity professionals continues to grow. At Purdue University Global you will study effective ways to develop, implement, evaluate, and update the security policies and practices that help organizations anticipate, respond to, and overcome cyberattacks.

Why Study Technology at Purdue Global?

ONLINE FLEXIBILITY FOR WORKING ADULTS

Earn your degree 100% online, while meeting the demands of your career. You can also visit one of our regional locations to take advantage of local, onsite support and services.

HANDS-ON VIRTUAL LABS

Gain tangible experience through learning labs that simulate real-world, on-the-job situations. This also helps you build a portfolio of diverse learning skills.

FACULTY EXPERTISE

Learn from practicing professionals with extensive experience in cybersecurity and education. All professors possess advanced degrees, and many hold industry certifications, have significant industry experience, contribute to academic journals, and present at conferences.

ONE-ON-ONE MENTORING

Work directly with faculty via online discussion boards, live seminars, and faculty office hours, and enjoy no-cost individual tutoring. In addition, academic and career advisors are dedicated to helping you successfully balance school with your work, family, and community responsibilities.

NATIONALLY RANKED AND RESPECTED

Purdue Global is part of the respected Purdue University system. One of the most prestigious research universities in the world, Purdue University is ranked in the top 10 best public universities in the U.S. by *The Wall Street Journal/Times Higher Education*.²

Program Outcomes Support Your Career Growth

BUILD THE CORE SKILLS AND COMPETENCIES THAT EMPLOYERS DEMAND OF CYBERSECURITY LEADERS	PREPARE TO MANAGE CYBERSECURITY TEAMS
<ul style="list-style-type: none"> ▪ Theory and Principles ▪ Industry Research ▪ Decision Analysis ▪ Critical and Analytical Thinking ▪ Communication Abilities ▪ Leadership 	<p>As a graduate, you can apply your knowledge to the management of information continuity, asset classification and control, compliance management, and the secure administration of IT infrastructure, as well as incident response.</p>

CONCENTRATION AREAS

Customize your degree plan to develop specialized expertise in your chosen career path. We offer several optional concentrations aligned to current industry demands.

Amazon Web Services (AWS) Cloud Technologies

Explore cloud computing, architecting, and AWS core services. Examine the fundamentals of AWS infrastructure, service options, and best practices in the AWS cloud.

Data Analytics

Explore statistical methods for data analytics and employ appropriate data analytics concepts and tools. Apply foundational programming concepts in an analytics setting.

Project Management

Focus on every phase of the project life cycle using current software to achieve goals and objectives. Learn to control project cost and scheduling, analyze project risk and quality, and consider legal and ethical issues.

Secure Software Development and Quality Assurance

Examine secure software development and design concepts. Apply best practices for coding, software testing, and implementation processes.

Curriculum

Our rigorous curriculum prepares you for leadership and management roles across the field of cybersecurity.¹ All courses are continually reviewed by our dedicated faculty and curriculum department to ensure they reflect the most recent developments and breakthroughs.

COURSES

- Writing and Critical Thinking for the IT Professional
- Foundations in Data Analytics
- Quantitative Risk Analysis
- Security for Analytics
- Introduction to Cybersecurity
- Management of Information Security
- Cryptography Concepts and Techniques
- Ethical Hacking and Network Defense
- Platforms, Applications, and Data Security
- Wireless, Mobile, and Cloud Security
- Computer Forensics and Investigations
- Legal and Ethical Issues in IT
- IT Security Auditing and Assessments
- Financial Investment of Cybersecurity
- Master's Capstone in Cybersecurity Management

OPTIONAL CONCENTRATIONS:

- Amazon Web Services (AWS) Cloud Technologies
- Data Analytics
- Project Management
- Secure Software Development and Quality Assurance

PROGRAM DETAIL

Credit Hours:

- General Program: 60 (non-concentration)
- Optional Concentration: 76-80

Program Length:

- General Program: Less than 2 years
- Optional Concentration: Approximately 2.5 years

Course Load: 1–2 courses per term

Terms: 12 weeks long

Start Dates: Throughout the year

Delivery: 100% online

ADDITIONAL PROGRAMS

- Master of Business Administration
- Master of Science in Information Technology



“My experience at Purdue Global has opened many doors and provided connections for continued work. The experience has taught me how to better coordinate and collaborate with others.”

Shane Happs

Graduate, MS in Cybersecurity Management³

Career and Networking Opportunities

INDUSTRY OUTLOOK

- Employment of information security analysts is projected to grow 33% from 2020 to 2030—much faster than average.⁴
- Employment of computer and information systems managers is also expected to grow as organizations seek qualified cybersecurity executives with an advanced degree and experience in the field to lead and protect their critical infrastructures.⁵
- 87% of organizations are experiencing a shortfall of skilled IT security personnel.⁶

CAREER PATHWAYS AND OUTCOMES²

Roles

- Senior security policy analyst/specialist/manager
- Senior security administrator/engineer
- Security architect/programmer/researcher
- Senior forensics analyst/investigator
- Senior ethical hacker/penetration tester
- Senior IT auditor

Settings/Industries

- Financial services
- Government
- Military
- Manufacturing
- Health care
- Communications
- Transportation

THE CENTER FOR CAREER ADVANCEMENT

Our Career Specialists connect cybersecurity students with job and networking opportunities and offer the following assistance:

- Career assessment/exploration
- Resume and cover letter review
- Interview preparation/mock interviews
- Portfolio development to showcase your skills
- Assistance in building an online presence
- Job search and networking support
- Virtual career fairs

STUDENT ORGANIZATIONS AND HONOR SOCIETIES

- Association for Computing Machinery (ACM) and ACM Women in Computing
- Graduation Information Technology Association (GITA)
- Student Online Annual Research Symposium (SOARS)
- Cybersecurity Club
- Cloud Club



Purdue Global Is Accredited by the Higher Learning Commission

The HLC (HLCCommission.org) is an institutional accreditation agency recognized by the U.S. Department of Education.

Military Friendly

We offer reduced tuition rates for servicemembers, veterans, and spouses.

Contact an Admissions Advisor at 844-PURDUE-G or visit PurdueGlobal.edu.

IMPORTANT INFORMATION: PLEASE READ

For comprehensive consumer information, visit Info.PurdueGlobal.edu.

1 Purdue Global cannot guarantee employment or career advancement. Additional certification or licensing may be required. In addition, job titles and responsibilities may vary by organization.

2 Source: www.timeshighereducation.com/student/best-universities/best-public-universities-united-states. Rankings apply to Purdue University West Lafayette and not to Purdue Global.

3 This testimonial was obtained by Kaplan University. Purdue University acquired Kaplan University in March 2018 and created Purdue University Global, which is following the same curriculum format and instructional delivery methods as developed and used by Kaplan University. The views and opinions expressed are those of the individual; student experiences may vary.

4 Source: U.S. Department of Labor, Bureau of Labor Statistics, *Occupational Outlook Handbook*, Information Security Analysts. National long-term projections may not reflect local and/or short-term economic or job conditions and do not guarantee actual job growth.

5 Source: U.S. Department of Labor, Bureau of Labor Statistics, *Occupational Outlook Handbook*, Computer and Information Systems Managers. National long-term projections may not reflect local and/or short-term economic or job conditions and do not guarantee actual job growth.

6 Source: <https://www.herjavecgroup.com/resources/2021-cyberthreat-defense-report/>.