

# BACHELOR OF SCIENCE IN CYBERSECURITY

A photograph of two young men in a computer lab. They are looking at a large monitor on the left. The man in the foreground is wearing glasses and a dark long-sleeved shirt. The man behind him is wearing a light blue shirt. The room is dimly lit with desk lamps providing light. The monitor displays a complex interface with various charts and data points.

## **BUILD THE EXPERTISE TO TAKE ON CRITICAL CYBERSECURITY CHALLENGES**

As the demand for cybersecurity experts continues to rise, organizations and businesses are seeking professionals with the skills and knowledge to protect them from present and potential threats. Purdue University Global's bachelor's degree in cybersecurity helps you gain the skills to detect and prevent a wide range of cybersecurity issues and employ the technical tools and methods to find solutions. You'll also develop valuable teamwork and communication skills to prepare you to compete in the evolving world of IT.

# WHY STUDY TECHNOLOGY AT PURDUE GLOBAL?

## EXCELTRACK™ ONLINE DEGREE OPTION

Complete your degree faster and more affordably with our ExcelTrack™ bachelor's in cybersecurity program.

## ONLINE FLEXIBILITY FOR WORKING ADULTS

Earn your degree 100% online, on your schedule. You can also visit one of our regional locations to take advantage of local, onsite support and services.

## TRANSFER CREDITS

Our average bachelor's graduate saves 45% on tuition with credit for prior learning.<sup>1</sup>

## HANDS-ON LEARNING

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. Plus, an optional internship allows you to gain practical job experience in the field.

## FACULTY EXPERTISE

Learn from practicing professionals with extensive experience in cybersecurity and education. All faculty possess advanced academic degrees.

## ONE-ON-ONE MENTORING

Work directly with faculty via online discussion boards and during faculty office hours, and enjoy no-cost individual tutoring. In addition, academic and career advisors will partner with you to help you successfully balance school with your career and life responsibilities.

## INTRODUCTORY TRIAL PERIOD

Make sure online learning at Purdue Global is right for you. Enroll in the University and try our classes for 3 weeks before you owe any tuition. That's the Purdue Global Commitment.<sup>2</sup>

## 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*.<sup>3</sup>

## ABET ACCREDITED

The online Bachelor of Science in Cybersecurity is accredited by the Computing Accreditation Commission (CAC) of ABET, [www.ABET.org](http://www.ABET.org)

This assures that our program meets the standards to produce career-ready graduates in critical technical fields that are at the forefront of innovation and emerging technologies.



Computing  
Accreditation  
Commission

# PROGRAM OUTCOMES SUPPORT YOUR CAREER GROWTH

Build the Core Skills and Competencies That Employers Demand	Prepare for Certification	Get a Head Start on Your Master's Degree
<ul style="list-style-type: none"><li>• Technology skills</li><li>• System specifications</li><li>• Professional communication</li><li>• Professional development</li><li>• Team management</li><li>• Security analysis</li></ul>	<p>Prepare to pursue many of the critical certifications recognized by the information assurance community and for Department of Defense (DoD) personnel.<sup>4</sup></p>	<p>Students completing the bachelor's program can qualify for shortened versions of our master's degrees in IT or cybersecurity management. This combined bachelor's-to-master's option saves you money and takes less time than completing each degree separately.</p>

# CURRICULUM

Our rigorous curriculum enables you to understand the foundational goals of cybersecurity, evaluate security trends, recognize best practices, and identify IT security products and threats. All courses are updated by our dedicated curriculum department and advisory board to ensure they reflect the most recent developments in the field.

## CYBERSECURITY COURSE TOPICS INCLUDE:

- Certified ethical hacking
- Networking concepts
- Linux system administration
- Certified Information Systems Security Professional (CISSP) domains
- Networking with TCP/IP
- Network security concepts
- Introduction to management
- Linux security
- Routing and switching
- Intrusion detection and incident response
- Ethics in cybersecurity
- Digital forensics
- Information systems security
- Cybersecurity policies

## EXCELTRACK™: A FASTER AND MORE AFFORDABLE WAY TO EARN YOUR DEGREE

In addition to our traditional online program, we offer ExcelTrack™, which is a personalized, competency-based option that gives you more control over how you learn. Each ExcelTrack™ online course is a single credit, covering a particular skill or piece of knowledge, allowing you to bypass any subjects you already know.<sup>5</sup> This option enables students who have at least 3 years of work experience and 3 prior college courses to earn their bachelor's degree sooner, at a lower cost.

## OPTIONAL CONCENTRATION AREAS

Customize your degree plan to develop specialized expertise. We offer several concentrations aligned to current industry demand.

- CISSP Certification Preparation<sup>4</sup>
- Cloud Computing
- Data Management
- Game Development
- Programming and Analytics

## ADDITIONAL PROGRAMS

- Master of Science in Cybersecurity Management
- Master of Science in Information Technology
- Bachelor of Science in Information Technology
- Undergraduate, Postbaccalaureate, and Graduate Certificates

## PROGRAM DETAIL

**Credit Hours:** 180

**Program Length:**

- **Standard online program:** 2–4 years (With transfer credit and other prior experience, the average completion time for Purdue Global bachelor's degree graduates in 2019-2020 was 2 years.)<sup>6</sup>
- **ExcelTrack™:** Self-paced to help you graduate sooner

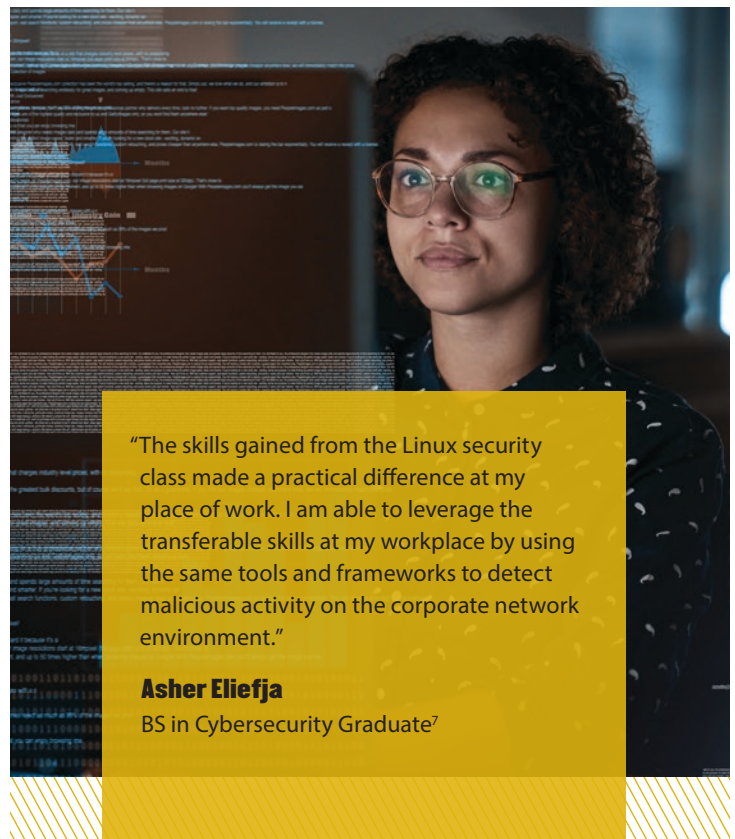
**Course Load:**

- **Standard online program:** 2 courses per term
- **ExcelTrack™:** As many as you can complete with a "B" or higher on your final assessment

**Terms:** 10 weeks long

**Start Dates:** Throughout the year

**Delivery:** Online, with optional local internship



# CAREER AND NETWORKING OPPORTUNITIES

## INDUSTRY OUTLOOK

- Employment of information security analysts is projected to grow 31% between 2019 and 2029, more than 7 times the average for all occupations.<sup>8</sup>
- There are a total of 507,924 cybersecurity job openings, according to a 2020 report.<sup>9</sup>
- According to a 2019 report, 88% of cybersecurity jobs require at least a bachelor's degree.<sup>10</sup>

## CAREER PATHWAYS AND OUTCOMES<sup>11</sup>

### Roles

- Security policy analyst/manager
- Security architect, programmer, or engineer
- Forensics analyst investigator
- Ethical hacker/penetration analyst
- IT auditor
- Information security officer
- Application security specialist
- Network security analyst
- Information assurance engineer
- Information security analyst

### Settings/Industries

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

## CENTER FOR CAREER ADVANCEMENT

Our IT Career Specialists connect 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
- 24/7 online access to job openings and career development tools

## STUDENT ORGANIZATIONS AND HONOR SOCIETIES

- Association for Computing Machinery (ACM) and ACM Women in Computing
- Cybersecurity Club
- Cloud Club



## Accredited by the Higher Learning Commission

Purdue Global is accredited by the Higher Learning Commission (HLC). The HLC (HLCommission.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](http://Info.PurdueGlobal.edu).

1 Purdue Global online bachelor's degree students who graduated in 2019–2020 and applied eligible prior learning (transfer, experiential, or credit by exam) credits saved an average of \$30,000 toward the total degree. Campus tuition and prior learning savings vary by location. Savings based on overall cost of completion without prior learning credit. Calculation based on total prior learning credit times standard cost per credit in student's program of study. Individual savings will vary. Calculation includes campus and military students. Purdue Global does not guarantee transferability of credit. See University Catalog for the Prior Learning Assessment policy. Source: Office of Reporting and Analysis, October 2020. 2019–2020 academic year.

2 Classes count toward a degree if satisfactorily completed. No credits are earned if the student withdraws during the introductory period (3 weeks for new qualifying undergraduate students), which begins day one of the first term. Students who choose to continue their studies at Purdue Global will need to meet specific requirements. Graduate programs not included. Additional terms may apply to international and non-U.S. citizen students. For further information, see the University Catalog.

3 Source: [www.timeshighereducation.com/student/best-universities/best-public-universities-united-states](http://www.timeshighereducation.com/student/best-universities/best-public-universities-united-states). Rankings apply to Purdue University West Lafayette and not to Purdue Global.

4 Students are responsible for understanding the requirements of optional certification exams. The University cannot guarantee students will be eligible to sit for or pass exams. In some cases, work experience, additional coursework beyond the Purdue Global program, fieldwork, and/or background checks may be necessary to be eligible to take or to successfully pass the exams.

5 ExcelTrack™ is designed to advance your progress based on existing knowledge; however, degree pace and time and cost savings will vary by individual. Students must enroll in a minimum number of credits per term to remain eligible for financial aid. Refer to the Financial Information section of the University Catalog for additional information. Programs may include standard online courses; however, tuition is charged at the ExcelTrack™ rate.

6 The average completion time for Purdue Global online bachelor's degree students who graduated in the 2019–2020 academic year was 2.1 years. Source: Purdue Global Office of Reporting and Analysis, July 2020.

7 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.

8 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.

9 Source: Cyber Seek, *Cybersecurity Supply/Demand Heat Map*.

10 Source: Burning Glass Technologies, *Recruiting Watchers for the Virtual Walls: the State of Cybersecurity Hiring*, June 2019.

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