Millersville University

IT & CYBERSECURITY FUNDAMENTALS

19-Week Online Certificate Program

ABOUT MILLERSVILLE

Founded in 1855, Millersville University is one of the most respected public universities in the Northeast. Located on a 250-acre campus in Lancaster County, Pennsylvania, it's part of the Pennsylvania State System of Higher Education (PASSHE).

FOUNDED	CAMPUS	PROGRAMS
1855	**250 acres**	**100+**

With over 100 programs across 5 colleges — including the Lombardo College of Business — Millersville combines the resources of a large university with the personal attention of a smaller institution. This certificate is issued through the Lombardo College of Business as a Non-Credit Certificate Program.

> *"One of the most highly regarded public universities in the Northeast."*

PROGRAM AT A GLANCE

DURATION **19 weeks**	FORMAT **Online, self-paced**
WEEKLY COMMITMENT **25 hours/week**	TOTAL HOURS **475 hours**
CREDENTIAL **MU Certificate**	CERTIFICATIONS **A+, Security+, CySA+**
TUITION **Speak with admissions**	START DATES **Monthly**

WHO THIS IS FOR

Career changers ready to break into cybersecurity or IT — without spending years in a traditional degree program. No tech background required. The program is designed to take you from beginner to certified professional in 19 weeks.

WHAT YOU'LL WALK AWAY WITH

- A Millersville University IT & Cybersecurity Fundamentals Certificate
- 3 industry-recognized CompTIA certifications (A+, Security+, CySA+)
- Hands-on experience with real security tools and scenarios
- Job search skills and technical interview practice

EARN THE CERTIFICATIONS THE INDUSTRY DEMANDS

Three industry-recognized CompTIA certifications — built directly into the curriculum so you graduate ready to pass all three exams.

A+

Build a rock-solid foundation in hardware, software, and troubleshooting — the certification most IT employers look for first.

SECURITY+

Validate your ability to assess security posture, monitor environments, and respond to threats using industry best practices.

CYSA+

Demonstrate advanced skills in threat detection, vulnerability management, and incident response — the analyst-level certification that sets you apart.

HIGH-PAYING CAREERS IN CYBERSECURITY AWAIT

ENTRY LEVEL

$73,892

IT Support Specialist

MID LEVEL

$108,103

Security Analyst

SENIOR LEVEL

$129,750

Cybersecurity Engineer

Average salaries reported. Median cybersecurity salary: $191,965+ (source: industry data).

HOW THIS PROGRAM WORKS

No lectures to sit through. No tests to memorize for. You learn by building real skills and proving you understand them.

MASTERY-BASED LEARNING

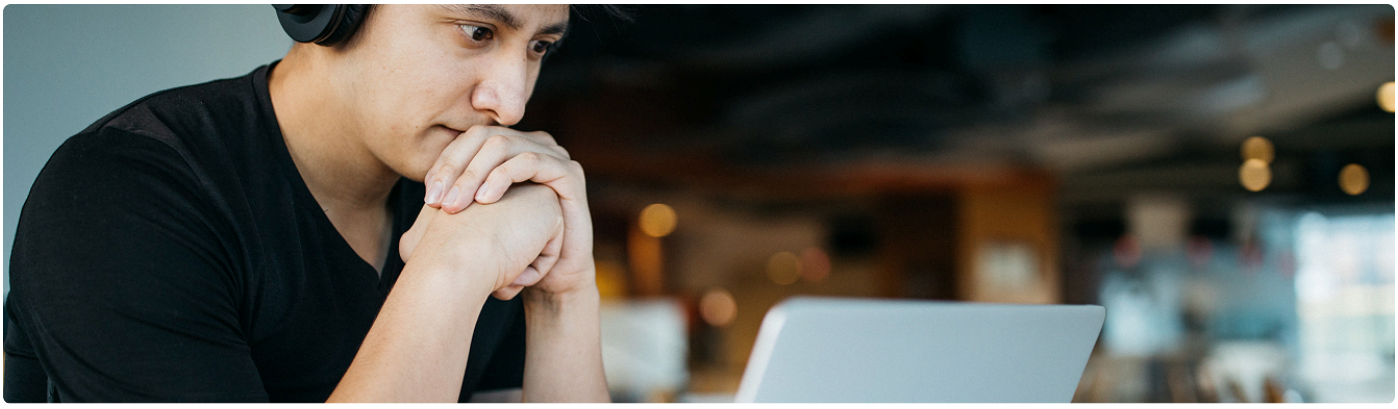
You don't move forward by sitting through hours of lecture — you move forward by proving you actually know the material. Every level ends with an assessment where you demonstrate what you've learned through projects, technical interviews, and hands-on work.

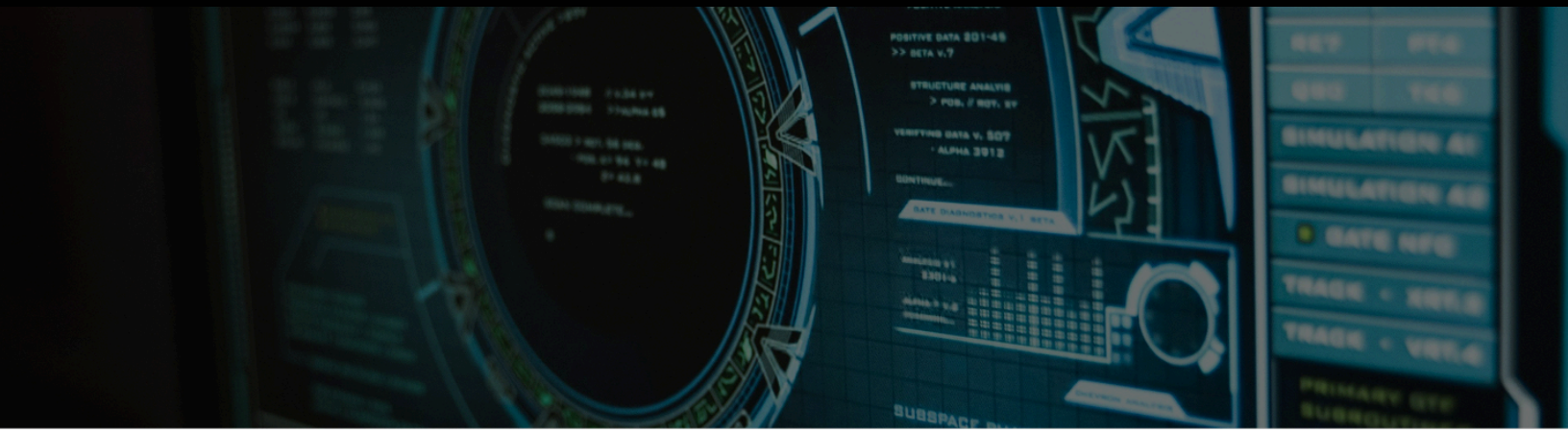
- Project-based curriculum
- Skill-focused assessments
- Pass/Fail grading — no busywork
- Continuous feedback loop

FLIPPED CLASSROOM

You learn independently through pre-recorded lectures and online resources, then join interactive sessions with your instructor for Q&A, hands-on labs, and real-time problem solving.

- Self-paced video lectures
- Live Q&A and lab sessions
- One-on-one mentorship
- Personalized learning paths





6 LEVELS · 3 CERTIFICATIONS · 475 HOURS · 19 WEEKS

CURRICULUM BUILT FOR THE DEMANDS AHEAD

Our curriculum is designed around the three CompTIA certifications employers want — integrating hands-on labs, real-world scenarios, and practical security skills from day one.

LEVEL 1

75 hours

Hardware Troubleshooting / A+ Core 1

- Hardware basics, ticketing systems, and troubleshooting
- Networking basics and the OSI model
- Introduction to the cybersecurity landscape

LEVEL 2

60 hours

Software, OS & Scripting / A+ Core 2

- SaaS applications for remote work
- Remote troubleshooting
- Understanding multiple operating systems
- A+ Core 2 exam, full A+ certification

Certification: CompTIA A+

LEVEL 3

80 hours

Network Administration & Fundamentals

- Enterprise network configuration (LAN, WAN, TCP/IP, subnetting, VLANs)
- Wireless networking and enterprise authentication (802.1X/RADIUS)
- Routing fundamentals, NAT, static/dynamic routing protocols
- Network services: DNS, DHCP, SNMP, SMTP, Syslog
- Network security architecture: firewalls, IDS/IPS, DMZ, defense-in-depth
- Cloud computing and deployment models

LEVEL 4

60 hours

Cybersecurity Essentials

- The CIA triad, authentication, and authorization
- Cryptography: symmetric/asymmetric encryption, hashing
- Public Key Infrastructure (PKI) and certificate authorities
- Security zones: intranet, extranet, DMZ, honeynet
- Identity and Access Management: MFA, RBAC, SSO, PAM

LEVEL 5

90 hours

CompTIA Security+ (SY0-701)

- General security concepts and security controls
- Threats, vulnerabilities, and mitigation techniques
- Security architecture: infrastructure, cloud, IoT, resilience
- Security operations: monitoring, hardening, identity management, automation

Certification: CompTIA Security+

LEVEL 6

90 hours

CompTIA CySA+ (CS0-003)

- Security operations: SIEM/SOAR, log analysis, alert triage, EDR/XDR
- Threat intelligence and threat hunting
- Vulnerability management: scanning, CVSS prioritization, remediation
- Attack frameworks: Cyber Kill Chain, Diamond Model, MITRE ATT&CK
- Incident response: detection, containment, eradication, recovery
- Reporting and communication: metrics, KPIs, stakeholder management

Certification: CompTIA CySA+

THROUGHOUT

20 hours

Job Search Fundamentals

- Resume and portfolio building
- Technical interview preparation
- Job search strategies and networking

Total program hours: **475** Grading: **Pass / Fail** Assessments: **Projects, interviews, labs**

WHAT IT ACTUALLY TAKES

This isn't a list of requirements — it's an honest look at what separates the students who finish from the ones who don't.

1. YOU CAN FOLLOW INSTRUCTIONS

Cybersecurity is detail-oriented. Misconfigure one rule and a network is exposed. Students who succeed read carefully, follow steps precisely, and double-check before moving on.

2. YOU CAN SIT WITH CONFUSION

Every week will put you in a situation where you don't fully understand what's happening. That's by design. The students who succeed Google it, try something, Google the error, and try again. The ones who struggle wait for someone to explain it.

3. YOU HAVE 25 REAL HOURS

Not "I'll find the time." Twenty-five hours that are currently unspoken for, or that you're genuinely willing to sacrifice something else to get. Do the math before enrolling.

4. YOU'RE COMFORTABLE WITH A COMPUTER

You don't need to know how to code. You do need to be able to install software, navigate a file system, use a browser beyond basic browsing, and type at a reasonable speed.

5. YOU CAN CHANGE YOUR MIND

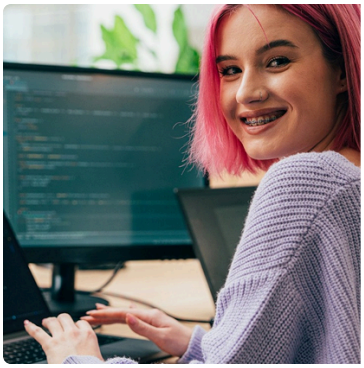
This program will challenge things you believe — about technology, security, and your own abilities. Students who succeed treat every belief as a hypothesis to test. Students who struggle treat every belief as a position to defend.

6. YOU HAVE A SPECIFIC REASON

Students who succeed have a reason beyond "this sounds interesting" — a career move, a skill gap they need to close, a future they're actively building. Know what you're working toward.

What Does NOT Matter

- **Your age** — 22-year-olds and 55-year-olds succeed here
- **Your degree (or lack of one)** — a GED and a PhD start at the same line
- **Your technical background** — we teach everything from scratch
- **Whether you've touched a server** — Level 1 starts from zero
- **Your current career** — retail workers, military vets, office managers all thrive here
- **How fast you learn** — the program is self-paced for exactly this reason



YOU'RE NOT DOING THIS ALONE

ONE-ON-ONE MENTORSHIP

Your instructor works with you directly — not just lecturing, but helping you through the parts where you get stuck.

CAREER COACHING

Job search support starts during the program, not after. Resume building, interview practice, and learning how to talk about your skills.

LIFETIME ACCESS

After you graduate, you still have access to updated curriculum, career support, and the alumni network.

HANDS-ON PROJECTS

Build home labs, run security scenarios, and work through real vulnerability assessments — not just textbook exercises.

WHAT YOU NEED

COMPUTER

Apple or Windows laptop, 2022 or newer, with at least 8 GB of RAM.

AI TOOLS

At least 1 paid LLM subscription. Budget approximately $100/month for AI tools and licenses.

INTERNET

Reliable internet connection for online coursework and live sessions.

TIME

25 hours per week of focused, self-directed work for 19 consecutive weeks.

WHAT WE EXPECT

- Consistent weekly progress through the learning management system
- 1 week without measurable progress = written warning
- 2 consecutive weeks without progress = withdrawal from program
- If you fall behind, your instructor will work with you on a plan to catch up

2026–27 ACADEMIC YEAR

START DATES

This program has one start date each month.

START DATE	REFUND DEADLINE	END DATE
8/4/2026	8/14/26	12/17/26
9/1/2026	9/11/26	1/19/27
10/6/2026	10/16/26	2/23/27
11/3/2026	11/13/26	3/22/27
12/1/2026	12/11/26	4/15/27
1/5/2027	1/15/27	5/18/27
2/2/2027	2/12/27	6/15/27
3/2/2027	3/12/27	7/14/27
4/6/2027	4/16/27	8/18/27
5/4/2027	5/14/27	9/16/27

READY TO START?

New cohorts begin every month. Here's how to get in.

1. **Take the Foundations Assessment**
   A free assessment that measures how you think, learn, and communicate. It's not a knowledge test — there are no right answers about cybersecurity or technology. It helps us (and you) figure out if this is the right fit.

2. **Talk to Admissions**
   Ask questions, learn about payment options (including GI Bill and VOC Rehab for veterans), and get personalized guidance.

3. **Pick Your Start Date**
   New cohorts begin the first week of every month. Choose the start date that works for your schedule.

4. **Start Learning**
   From Day 1, you're hands-on. By Week 19, you'll have three CompTIA certifications and the skills to land your first role in cybersecurity.

BOOK YOUR FREE CAREER CALL

No commitment. Let's talk about where you are and where you want to go.

APPLY NOW