



Millersville University

APPLIED **AI** MASTERY

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	TUITION Speak with admissions
PREREQUISITES Foundations Assessment (free)	START DATES Monthly

WHAT THIS PROGRAM IS

A hands-on education in applied artificial intelligence — from AI foundations through workflow automation, agentic systems, software architecture, security, and business consulting. You'll build real AI systems, deploy them to production, and prove measurable business value for real clients.

WHO IT'S FOR

Career changers ready to become AI professionals. No technical background required. The program is designed to transform beginners into people who can walk into any business, find where AI creates value, build a solution, and prove the ROI.

WHAT YOU'LL WALK AWAY WITH

- A Millersville University Applied AI Mastery Certificate
- A portfolio of deployed AI projects
- A real-business capstone with measured ROI
- Job search skills and technical interview experience

AFTER 19 WEEKS

WHAT YOU'LL BE **ABLE TO DO**

SET UP AN AI-POWERED WORKSPACE

Customize a development environment with integrated AI tools, agents, and automated workflows tailored to your specific work context.

BUILD & DEPLOY WITH AI

Build and deploy custom software using AI as a force multiplier throughout the entire development lifecycle.

AUTOMATE & CREATE AGENTS

Design and implement automations and AI agent workflows that replace manual, repetitive business processes with reliable, scalable systems.

ANALYZE BUSINESS SYSTEMS

Look at a business's existing workflows and identify inefficiencies, manual bottlenecks, and opportunities where AI would deliver measurable impact.

PROVE THE ROI

Evaluate solutions in business terms — calculating ROI, cost savings, capacity gains, and revenue impact — to build a compelling case for implementation.

PRESENT A PROFESSIONAL CASE STUDY

Develop and present a case study documenting a real business problem, the solution you built, stakeholder engagement, and measurable outcomes.

HOW THIS PROGRAM WORKS

No lectures to sit through. No tests to memorize for. You learn by building real things 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 · 475 HOURS · 19 WEEKS

CURRICULUM BUILT FOR THE **AI ECONOMY**

Every level builds on the last. You start with how to think, then learn what AI can do, then build with it, then prove the value.

LEVEL 1

75 hours

Problem Solving & AI Fundamentals

- Problem solving frameworks, approaches, and methodologies (40 hrs)
- AI fundamentals — what AI is, what it can do, where it's headed (35 hrs)

LEVEL 2

75 hours

How Technology Works + AI Tools

- How the internet and software systems work (35 hrs)
- AI tools and workflow customization — setting up your AI-powered workspace (40 hrs)

LEVEL 3

60 hours

Automations, Agents & Agentic Workflows

- Building automations that replace manual, repetitive processes
- Designing AI agent workflows
- Creating reliable, scalable agentic systems

LEVEL 4

90 hours

AI-Assisted Development, Security & Deployment

- AI-assisted software development (35 hrs)
- Security fundamentals (30 hrs)
- Deployment and operations (25 hrs)

LEVEL 5

75 hours

Business Systems Analysis & ROI

- Business systems analysis — diagnosing workflows, finding opportunities (40 hrs)
- Business economics and ROI — calculating real value, not hypothetical (35 hrs)

LEVEL 6

75 hours

Case Study Development & Presentation

- Real-business capstone project with a real client
- Documenting the problem, solution, and measurable outcomes
- Stakeholder engagement and professional presentation

THROUGHOUT

25 hours

Job Search Fundamentals

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

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 WRITE CLEARLY

80% of this program is written submissions — analyses, client-facing documents, case studies. You don't need perfect grammar. You need to explain complex ideas so a busy person can follow your reasoning in one read.

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.

5. YOU CAN CHANGE YOUR MIND

This program will challenge things you believe — about AI, technology, business, 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.

2. YOU CAN SIT WITH CONFUSION

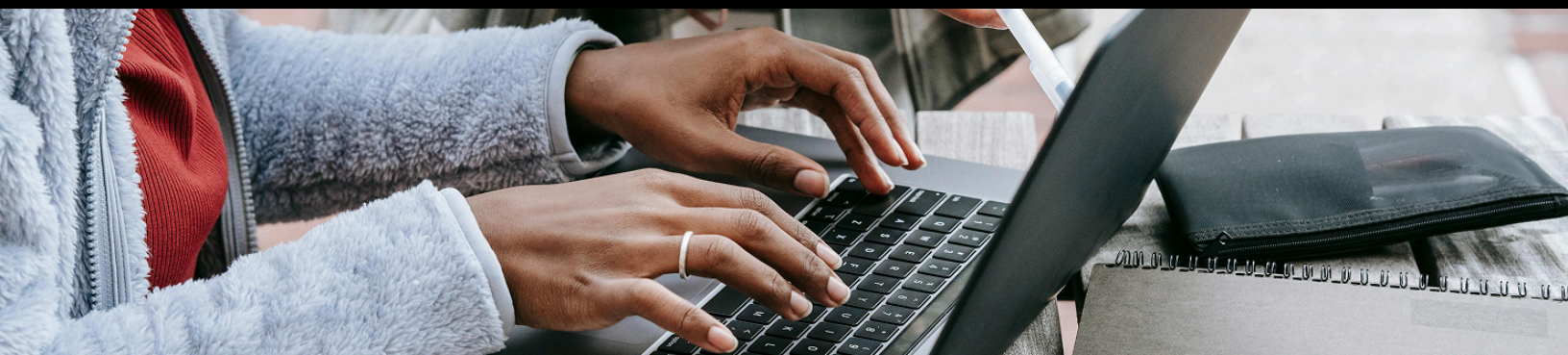
Every week will put you in a situation where you don't fully understand what's happening. That's by design. The students who succeed Google it, try something, Google the error, and try again. The ones who struggle wait for someone to explain it.

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.

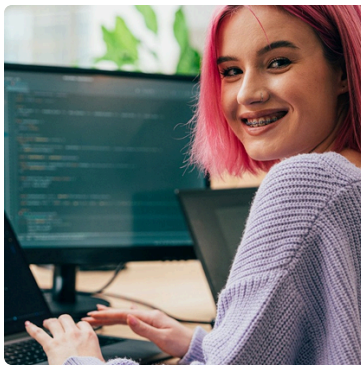
6. YOU HAVE A SPECIFIC REASON

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 used AI before** — Week 1 covers that
- **Your current career** — teachers, sales reps, project managers all have equal potential
- **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.

REAL CLIENT PROJECTS

You don't just build practice projects — you work with actual businesses, solving real problems, building a portfolio that proves your value.

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, ~3 hour assessment that measures how you think, learn, and communicate. It's not a knowledge test — there are no right answers about AI 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 Building**

From Day 1, you're learning by doing. By Week 19, you'll have a portfolio of real deployed projects and a capstone case study proving your value.

BOOK YOUR FREE CAREER CALL

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

APPLY NOW