Fully Online
7/8-7/12
Synchronous & Asynchronous

3-Credit Graduate Course

Millersville University

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Coding Confidence for K-12 Educators

Monday	Introduction to Computational Thinking & Coding (Python)
Tuesday **Wednesday**	Introduction to Robotics/ iSTEM lab AND hands-on/ unplugged coding activities AND Scratch
Thursday	Introduction to Java
Friday	Effective Use & Techniques of AI Tools (e.g. ChatGPT) in education
Week 2	Finish up Customized Development of Lesson Plan(s) (outside of class work, with support from Dr. Hardy)

Your Team of Instructors

Dr. Nazli Hardy
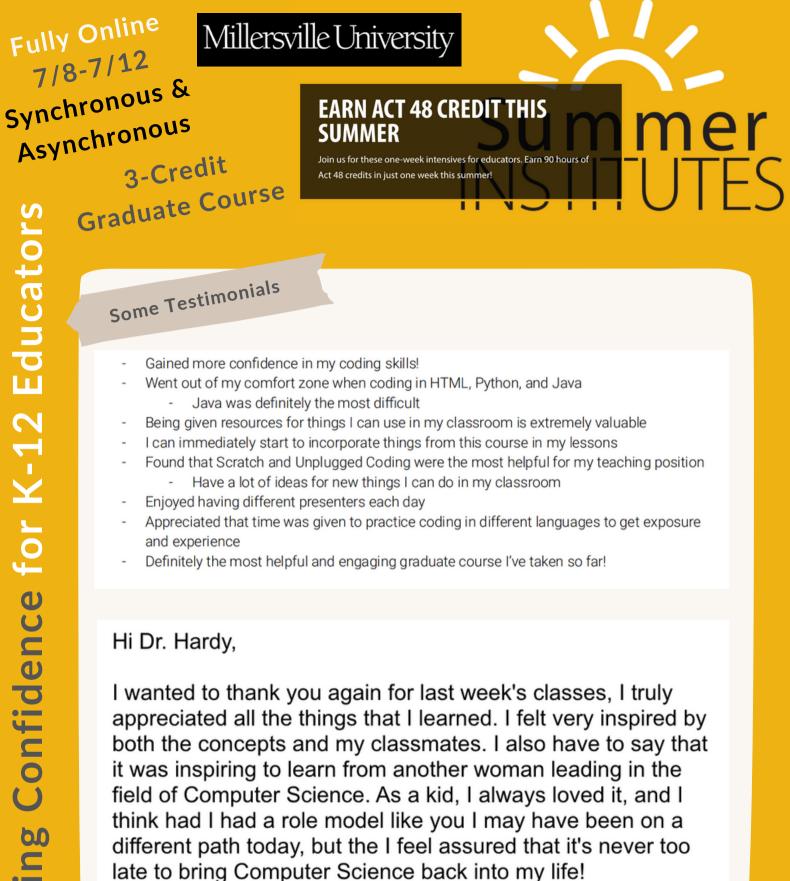**Associate Professor of Computer Science**
Millersville University

Mr. Jeff Wile
Award-Wining CS Educator
Warwick SD
CSTA Chapter President

Ms. Rae Ann Smith
Technology Specialist
Hempfield SD

Ms. Nicole Shoemaker
CS & Tech Educator
Donegal SD

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Daily Schedule

8-10 am: (asynchronous) general introduction to the topic and its relevance

10-11:50 am: (synchronous) instruction & students practice (supervised by instructor)

12 pm lunch

1-2:00 pm: (synchronous) further instructions

2:00 pm: break

2:30 - 4:00 pm: (mix of synchronous & asynchronous) group work/ practice/ assignment (supervised by instructor)

Registration:
millersville.edu/admissions/graduate/programs/institutes/

Contact: Dr. Nazli Hardy, Nazli.Hardy@Millersville.edu
Director of the Coding Confidence Summer Institute

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Some Testimonials

- Gained more confidence in my coding skills!
- Went out of my comfort zone when coding in HTML, Python, and Java
  - Java was definitely the most difficult
- Being given resources for things I can use in my classroom is extremely valuable
- I can immediately start to incorporate things from this course in my lessons
- Found that Scratch and Unplugged Coding were the most helpful for my teaching position
  - Have a lot of ideas for new things I can do in my classroom
- Enjoyed having different presenters each day
- Appreciated that time was given to practice coding in different languages to get exposure and experience
- Definitely the most helpful and engaging graduate course I've taken so far!

Hi Dr. Hardy,

I wanted to thank you again for last week's classes, I truly appreciated all the things that I learned. I felt very inspired by both the concepts and my classmates. I also have to say that it was inspiring to learn from another woman leading in the field of Computer Science. As a kid, I always loved it, and I think had I had a role model like you I may have been on a different path today, but the I feel assured that it's never too late to bring Computer Science back into my life!

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Coding Confidence for K-12 Educators

Some Testimonials

- The instructors were extremely knowledgeable, had great activities, and were readily available to help with problems or brainstorm. Not only were the instructors knowledgeable, intelligent, and good at what they do, they also had a really good teaching and people presence as well. Great picks for helping with the course.
- I appreciated the strategy of the order in which the class was presented. HTML, plugged/unplugged, Scratch, Java, Python. We were shown a variety of coding tools and ended with Python, which seemed like the most user friendly and logical in my opinion.
- I wish the agenda/class structure was emailed the week before, just to have a heads up as to the timeframe.
- It would be good to get some helpful tips ahead of time too (supplies needed, helpful to have multiple devices/screens, etc).
- I had very little coding knowledge prior to this course (I even struggled just using the jamboard) but now I feel I can have a decent conversation with someone about it.
- I have a whole new appreciation for computer programming and programmers. It's extremely tedious work that makes all of our lives a little easier. I am very thankful for that.
- I appreciated a comment that Dr. Hardy made about not coding very much in her daily life, but having experience in and knowledge of coding made her a better thinker in all components of her life. I can totally relate to that statement. In just one week, I can tell that it has changed how I think about some things, putting a name to strategies/techniques, and creating questions to ask or research later. (I also had a nightmare about a Python snake but it was the night between Java & Python so I think it was Java identifying as Python in the snake form).
- I think my favorite part of the course (that was not related to the course) was seeing Maui's giant hook and paddle on Dr. Hardy's wall. A) where did you get them, B) I would randomly think Moana quotes and songs throughout class. C) Great decoration!
- It was a neat moment when you had a former student present in class. I can see why you are proud, she was great and did a really good job of making it easier to understand by giving simple definitions/explanations of coding language/functions.
- How do all computer programmers not have glasses, carpal tunnel syndrome, and poor posture?
- I like that I didn't have to drive to Millersville everyday but I do think parts of this would have been better in person. It was well done online.
- This experience is something that I'm not sure how it will impact my future but I do know that it will be something I am thankful for and will help with my knowledge and opportunities. When that happens, I will be sure to let you know.
- Thank you for the course. It was well done and while I might not use much of it, I did learn a lot, it will help me in my daily life, and has helped me become a better person.

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