



Summer INSTITUTES

2023



Coding for Educators

This **fully online** three-credit graduate course is designed for teachers and other school-based professionals who have **little or no exposure to coding**. Integrating some coding in the curriculum of any subject enables children to develop the skills of critical thinking and helps them gain the confidence to work through problems in a systematic manner.

#coding

#problemsolvingskills

#computationalthinking

July 17 - 21, 2023

Online with group sessions and asynchronous work. 8am-4pm

REGISTRATION:

Course: **CSCI 501.50A** CRN: **3369**

Term: **Summer 3, 2023**

FEATURED GUEST SPEAKERS:

Mrs. Nicole Shoemaker, STEM special area teacher
Donegal School District

Mrs. Rae Ann Smith, Instructional technology specialist
Hempfield School District

Mr. Jeff Wile, Computer science educator
Warwick School District

Ms. Breanna Caggiano, Software engineer

Problem-solving skills and the ability to tackle a problem set with logic and persistence are key benefits tied directly into learning concepts of coding.

Institute Director: Dr. Nazli Hardy

More information: email nazli.hardy@millersville.edu



Millersville University
COLLEGE OF GRADUATE STUDIES
& ADULT LEARNING



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Coding Confidence For Educators

M.S. Technology & Innovation program elective

Instruction on incorporating basic coding into your curriculum, featuring:

- ~ an introduction to computational thinking; hands-on HTML;
- ~ hands-on/ unplugged coding activities;
- ~ exposure and application to Scratch, Java, Python;
- ~ an introduction to digital foot-printing.

Each student (educator) will create a “take-home” product and tool-set to apply directly to their classes in the Fall.

Instructional Team

Director: Dr. Nazli Hardy, Associate Professor of Computer Science, Millersville University
Dr. Hardy teaches several courses including introduction to programming, computational models, and discrete mathematics. She is Chair of the Women in Mathematics, Science & Technology Conference and founder of Woman Empowered.

Mrs. Nicole Shoemaker, Donegal Intermediate School
Designing a STEM program at Donegal has been an exciting challenge that has allowed her to consider how STEM subjects can motivate students and help them develop skills beyond the traditional curriculum.

Mrs. Rae Ann Smith, Hempfield School District
Mrs. Smith has served as a summer instructor at Millersville’s Technology and Engineering summer camps for several years, designing activities to teach students about coding using online and offline experiences and about stop motion video through clay animation.

Mr. Jeff Wile, Warwick High School
Recipient of the 2022 CSInPA Exemplary Educator Award, the 2022 Cognizant Foundation/Teach for America’s Innovation in Computer Science award, and the Regional NCWIT Aspirations in Computing Educator award in 2019.

Ms. Breanna Caggiano, software engineer
Ms. Caggiano contributes to the development of complex systems and works closely with cross-functional teams to ensure the success of the projects.

Summer Institutes are 3 credit graduate classes, offered in an intensive one week-long format, which can be applied to a master’s degree in an appropriate graduate program at Millersville University. Institutes offer 90 hours of Act 48 credit.



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