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COMPUTER SCIENCE EDUCATION GOALS

GOAL #1: Increase number of middle and high teachers who complete training in computational thinking and computer science.

GOAL #2: Increase the number of middle and high school students who take a computer science class.

GOAL #3: Increase the number of middle and high school students who explore computer science through an in-school activity or program.

A SAMPLING OF PROFESSIONAL CURRENT PROFESSIONAL DEVELOPMENT OPPORTUNITIES AVAILABLE FOR EDUCATORS

Provider	Location/Audience	Length	Overview
Grandview University	Des Moines (online)	Various	This stand-alone class meets state requirements for your Computer Science Endorsement. The course addresses effective strategies for teaching computer science to diverse learners. Participants will focus on curriculum development related to computing constructs, digital citizenship and problem solving strategies in computer science.
	Educators seeking formalized CS endorsement		
NewBoCo	Decorah, Dubuque, or Storm Lake	Five days in summer, plus four 1-day workshops	For educators who are interested in teaching Code.org's CS Discoveries (grades 6-10) or CS Principles (grades 9-12) courses. These programs are designed to prepare educators to provide high quality instruction based on the curriculum, tools and approach to students in their classrooms.
	Any Educator (Incorporate CS into existing curriculum)		
Northwestern College	Orange City (Online)	8 weeks	Earn your Computer Science Endorsement and be equipped to teach computer and programming skills in grades K-8 and/or 5-12. The program focuses on the current knowledge needed to teach in the growing field of CS and improve student outcomes.
	Educators seeking formalized CS endorsement		
Tata Consultancy Services (TCS)	Various	Usually 1 day	Partners with Discovery Education on "Ignite My Future in School", a one-of-a-kind initiative transforming the way students across America learn through computational thinking.
	Any Educator (Incorporate CS into existing curriculum)		
University of Northern Iowa	Cedar Falls	Various. Mixes online learning with limited in person interaction.	The CSEd@UNI courses are carefully designed to align with the ISTE Standards for Teacher Preparation Programs and the CSTA Standards for K-12 Students. The majority of the instruction and work is completed online, with a limited number of face-to-face sessions.
	Educators seeking formalized CS endorsement		