

## Digital Skills and Literacy in Education: Addressing Cybersecurity

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Ensuring equitable access to digital skills and literacy is a strategic priority of the National Coalition of Advanced Technology Centers (NCATC). Cyber awareness and the development of a cyber workforce are imperative as they require a core curriculum that enables students to develop the interdisciplinary skills and perspectives necessary to thrive in an increasingly digital world.

### NCATC Collaborations Will Find a Solution

NCATC recognizes that embedding cybersecurity as a core curriculum in higher education is imperative in today's digital landscape. According to the National Cyber Workforce and Education Strategy created by the Office of National Cyber Director Executive Office of the President, cyber skills consist of three components.

**Digital literacy:** The cognitive and technical skills needed to use information and technologies to find, evaluate, create, and communicate information

**Computational literacy:** The ability to consume information and use applications and systems to analyze data, draw conclusions, and solve problems; safely, ethically, and securely interact in networked environments; and understand how computing, data, and connectivity affects society

**Digital resilience:** The awareness, skills, agility, and confidence to be empowered users of new technologies and adapt to changing digital skill demands

### What Can You Do to Collaborate and Address the Lack of Cybersecurity Literacy?

Addressing the lack of cybersecurity literacy requires a multifaceted approach that involves collaboration across multiple sectors. Here are just two of many strategies that can be effective:

1. **Education Initiatives:** Implement comprehensive cybersecurity education programs starting from schools and continuing into workplaces
2. **Industry Collaboration:** Encourage collaboration between cybersecurity experts, industry leaders, and policymakers to develop standards and guidelines for cybersecurity education and practices within specific sectors

### Additional Resource

National Cyber Workforce and Education Strategy: <https://www.whitehouse.gov/wp-content/uploads/2023/07/NCWES-2023.07.31.pdf>