Integrating ethics and societal impact into cybersecurity education in online learning

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Why This Matters

- Cybersecurity professionals shape digital rights, privacy, and security.
- How do we prepare them for ethical and societal challenges?

Traditional Cybersecurity Education

- Focuses on technical skills but lacks embedded ethical reasoning.
- Students need to balance security, privacy, and fairness.

The Need for an Integrated Approach

- Cybersecurity decisions impact privacy, access, and equity.

- Example: AI surveillance – where do we draw the ethical line?

Challenges in Online Cybersecurity Education

- Engagement barriers and lack of face-to-face discussion.
- How can CAE-CD institutions lead in ethical integration?

2025 CAE Community Symposium

Strategies for Integration

- 1. Scenario-Based Learning
- 2. Discussion-Based Activities
- 3. Project-Based Learning
- 4. Ethical Reflection in Assignments

Case Study: Ethics in CAE-CD Institutions

- Example: Ethical dilemmas in cyber defense exercises.
- Role-playing ethical decision-making in AI and security policies.

Benefits of Ethics Integration

- Enhances critical thinking and engagement.
- Prepares students for ethical challenges in the industry.

Conclusion & Call to Action

- Ethics must be a core part of cybersecurity education.
- CAE-CD institutions can set the standard.

Q&A

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- Questions and Discussion