SaTC: EDU: Transdisciplinary Cybersecurity Education for Law and Engineering Students

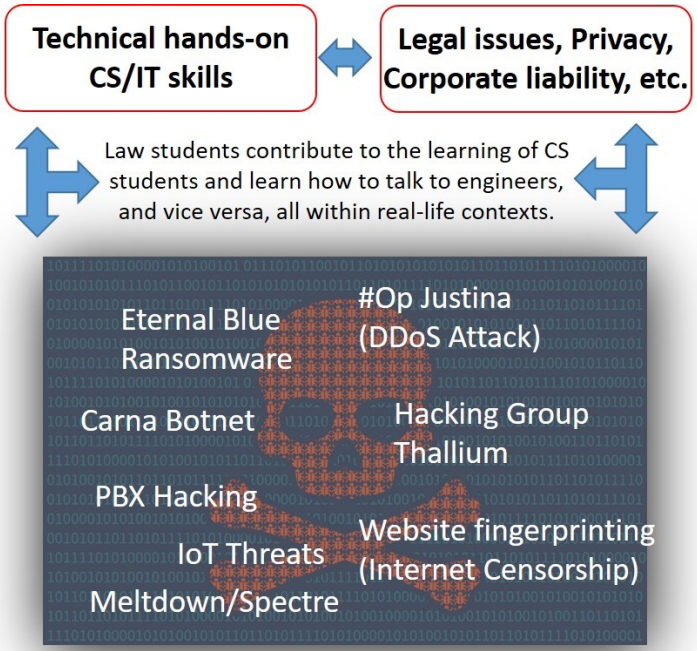
Challenge:

- Cybersecurity cases are inherently multidisciplinary.
- An urgent need to train future cybersecurity professionals in both the technical and the legal and policy issues that play such a large role.

Solution:

Cybersecurity scenario-based curriculum

- Real-life scenarios;
- Hands-on lab experiment;
- Interdisciplinary interactions



NIST NICE Workforce Framework

* Cyber Legal Advisor work role (OV-LGA-001) are required to have technical Knowledge of computer networking concepts and protocols, and network security methodologies (K0001).
* Securely Provision work category (SP) requires non-technical knowledge of laws, regulations, policies, and ethics (K0003).

Scientific Impact:

- Designing and implementing a cybersecurity education framework that provides an unfragmented multifaceted view of security through real-life scenarios and interdisciplinary interactions.
- Aligning with NIST NICE Cybersecurity Workforce Framework

Broader Impact and Broader Participation:

- Open source textbook & VM-based lab environment
- Interdisciplinary MS degree = Cybersecurity & Data Privacy Certificate (Law) + Cybersecurity Technology Certificate (Engineering)
- WyCyS 2022 (Women in Cybersecurity), Cleveland, OH
- Summer camp for HS students (along with CSforAll camps, supported by NSF)

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