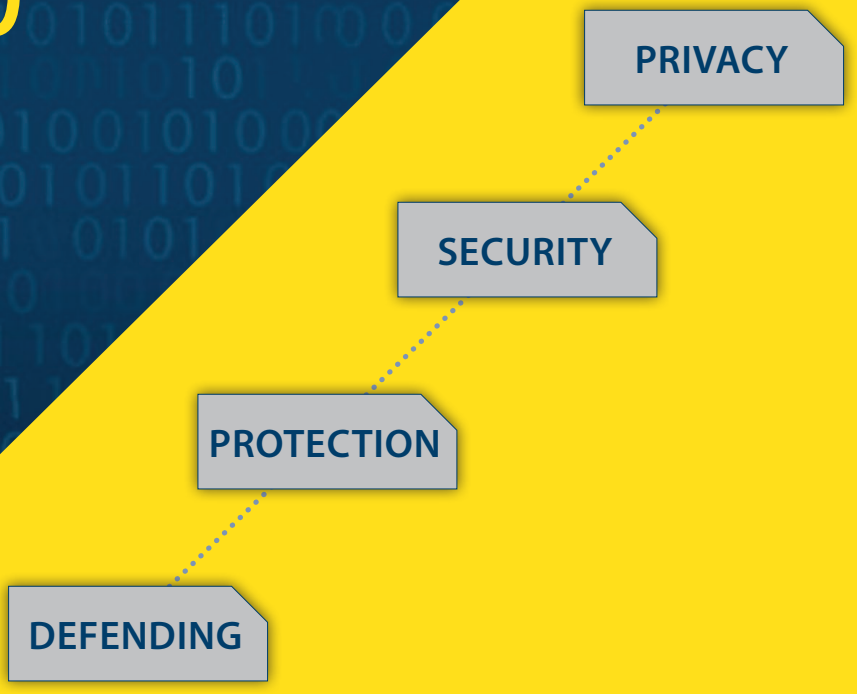
CENTER FOR CYBERSECURITY, ASSURANCE AND PRIVACY (CCAP)



UNIVERSITY OF DELAWARE

UD's Center for Cybersecurity, Assurance and Privacy (CCAP) focuses on protecting cyberspace through innovative research, and preparing the next generation of security professionals through excellence in cybersecurity education.

MISSION

The Center for Cybersecurity, Assurance and Privacy (CCAP) at the University of Delaware is an interdisciplinary driver for innovation and research to defend the cyberspace, excellence in education of the cybersecurity workforce, and engagement with government agencies, industry partners and the general public on assurance and privacy challenges. The Center is dedicated to promoting cybersecurity awareness and information governance for organizations, accelerating transition to practice, as well as advancing the public discourse on cybersecurity policy and ethics.

VISION

The Center for Cybersecurity, Assurance and Privacy (CCAP) focuses on protecting cyberspace through innovative research, and preparing the next generation of security professionals through excellence in cybersecurity education.

The CCAP is establishing itself as a nationally competitive driver for grand cybersecurity challenges, including:

- Privacy in cloud computing and healthcare
- Security and assurance in financial transactions
- Protection of our personal devices and digital identity
- Defending the national infrastructure and resources

CENTER OF EXCELLENCE

DHS & NSA Center of Excellence in Cyber Defense Education

The National Security Agency and the Department of Homeland Security have designated the University of Delaware a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE).

The goal of the program is to reduce vulnerability in the national information infrastructure by promoting higher education and research in cyber defense and producing professionals with cyber defense expertise for the nation.

EDUCATION

UD is among the leading academic institutions in the nation to offer a unique bachelor's degree in cybersecurity engineering. With over 50 courses, including electives, UD's cybersecurity major combines rigorous security fundamentals with design and problem-solving skills that UD engineers are known for in the job market. Alongside this degree, UD's strong established Master's in Cybersecurity offers the best possible preparation for the future Cybersecurity workforce.

MINOR

A minor in Cybersecurity may be earned by a student in *any University bachelor's degree program*. This minor provides the opportunity to help infuse cybersecurity fundamentals into other degree programs.

SCHOLARS

The Cybersecurity Scholars Program will integrate with any major and train you to become a thought leader in cybersecurity! You will collaboratively assess the most pressing cyber-defense questions and develop both cultural and technical solutions.

EDUCATIONAL PROGRAMS

NEW DEGREE PROGRAM:

- Bachelor of Science in Cybersecurity Engineering
- MS – Cybersecurity
- MS – Cybersecurity Online
- Minor in Cybersecurity
- Cybersecurity Certificates
- Dual Degree Master of ECE / MBA
- Dual Degree Master of BAIM / Cybersecurity
- PhD Program

CERTIFICATES

- Cybersecurity Foundations
- Secure Systems
- Security Analytics
- Security Management
- Secure Software

These certificates can be combined to satisfy the requirements of a Masters degree in Cybersecurity.

Research Capabilities & Opportunities

CCAP offers a unique opportunity for interdisciplinary research, as it brings together faculty working on theoretical foundations (such as cryptography, etc.), with those working on applications (such as healthcare, cloud computing and FinTech). These faculty members have already demonstrated their ability to attract funding as individuals, yet CCAP will offer unique opportunities for collaboration beyond individual principal investigators.

A sampling of our nationally-competitive research

- Blockchain
- Big data
- Cloud security
- Machine learning
- Healthcare privacy
- Malware detection
- Post-Quantum Cryptography
- Security management
- Mobile security
- Hardware Trust
- Drones & Cyberphysical Systems
- Secure Software
- Security in 3D printing
- Reverse Engineering
- Internet of Things & Embedded Systems
- Social Networks

Cloud Security

Hardware Trust

Internet of Things

Machine Learning

Malware Detection

FIND OUT MORE

102 Evans Hall
University of Delaware
Newark, DE 19716
(302) 831-6937
W: ccap.udel.edu
E: cybersecurity-info@udel.edu

09012023