The Center for Cyberspace Research, established in March 2002, conducts cyber security and cyber operations research at the Master’s and PhD levels. CCR affiliated faculty teach and direct graduate research focusing on understanding and developing advanced cyber-related theories and technologies, such as critical infrastructure protection, cyber-physical systems, network intrusion detection and avoidance, insider threat mitigation, cyberspace situational awareness, malicious software detection and analysis, software protection, and anti-tamper technologies.

CCR faculty’s research and teaching establishes the Air Force Institute of Technology (AFIT) as a national Center of Academic Excellence (CAE-R) in Cyber Research, designated by the Department of Homeland Security (DHS) and the National Security Agency (NSA).

The Cyber Education Hub is a collaboration between the Air Force Cyberspace Technical Center of Excellence, Cyber College and CyberWorx. Designed and developed by faculty, staff and students in AFIT’s Center for Cyberspace Research, the Cyber Education Hub is a research project that addresses the force development challenges of yesterday’s teaching methods with today’s way of learning.

Unique Requirements

- **Scalability** – highly accessible and supports a broad range of content from multiple sources, including tactical Airmen, while addressing data protection and security concerns

- **Complexity** – decomposes complex concepts into smaller learning doses while preserving relationships and context; recognizes and values Airmen’s time

- **Currency** – deemphasizes/archives stale content and favors new content based on usage

- **Discover** – drives innovation while addressing cost and security concerns

Interested in learning more, requesting access, or participating in research?
Visit www.afit.edu/ceh-learn
What are the Key Features and How Does it Work?

The Cyber Education Hub integrates technologies found in YouTube, Netflix, topic maps, and video game skill trees into an online learning environment where cyber content can be shared, searched, discovered and discussed.

**Topic Maps**

Provide a visual overview of topics and relationships, empowering Airmen to explore subjects, content and skills, even if they don’t know the exact terminology.

**Knowledge/Skill/Ability (KSA) Trees**

Mechanisms to tell Airmen what is important while giving them the autonomy to specialize within their career field.

**Safety/Security/Data Protection Features**

- CAC restricted access allows for sharing among authorized DoD personnel and defense contractors
- AWS GovCloud means data is encrypted in transit and at rest in FEDRAMP approved commercial data center

Every submission is tied to the Airman’s name based on their CAC; no anonymity.

Custom content playlists to meet mission objectives.

Like Netflix, curated content provides organizations with easy-to-find information. Specific channels can be aligned to military missions, AFSCs, geography, etc.

Like YouTube, crowd-sourced content empowers Airmen to directly share their best practices for accomplishing the Air Force mission.

What Makes the Cyber Education Hub Unique?

**Distinctness from Current Platforms**

- Content crafted by Airmen for Airmen with examples and terminology they understand
- Truly sharable/tailorable content with no artificial organizational boundaries

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