## Cybersecurity Curriculum Task Force

https://cyberedtaskforce.org/mpos/



## **NCAE-C Curriculum Task Force**

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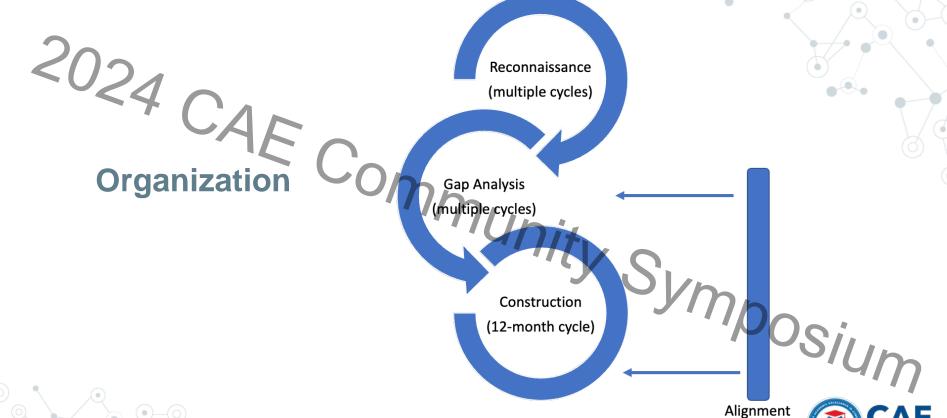
## **NCAE-C Curriculum Task Force**

## 202 Mission

Catalog and create high-quality and relevant curricula on emerging cyber topics, mapping to curricular and workforce guidelines, and make them mposium freely available.



## **NCAE-C Curriculum Task Force**



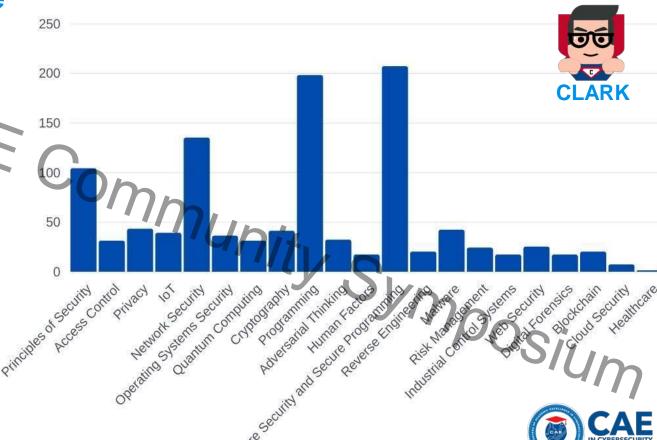
https://cyberedtaskforce.org

## Reconnaissance



- 25 topics
- 3000+ resources

Future plans: Look outside the community



## **Gap Analysis**

Vulnerability and Espiritation Intrusion Detection and Response

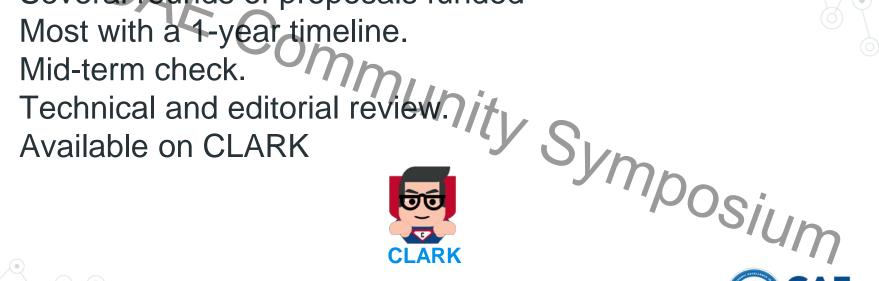
- Industry focus groups
- Survey to identify top knowledge & skills in each area
  - Quantum resistant cryptography
  - Autonomous / self-driving vehicle security mposium
  - Zero trust
  - Software supply chain security
  - Ransomware



## Construction

Several rounds of proposals funded







## **Construction Topics**

- Zero trust security
- Ransomware
- Quantum Resistant M
- Software Supply Chain Security
- AI and LLMs for CybersecuritySecurity for AI



- Autonomous and Connected Vehicles
- DevSecOps and Secure Software development
- Autonomous Vehicle Security
- Medical Device Security
- Ransomware: Prevention, Detection, and Recovery



## Institutions Funded (over 600K awarded) BOSTON UNIVERSITY posium NSU Florida

## **Zero Trust Security**

Last Updated 9/5/23

of Zero Trust Architecture in Government Networks. + 9 more

## Description

This course will explore the concepts of zero trust architecture. Students will learn the underlying concepts of zero trust. Students will learn nmunity how to plan and implement a zero trust architecture that meets regulatory requirements.

## **Learning Outcomes**

Define zero trust principles

No Mappings

Configure a zero trust architecture No Mappings

Manage a zero trust architecture No Mappings

Analyze the different aspects of zero trust No Mappings

Mapped Outcomes

Mapped Outcomes

Mapped Outcomes

Mapped Outcomes

No revisions have been made since last release.

**DOWNLOAD NOW** 

DOWNLOAD ~

MAP AND TAG

**EDIT SUBMISSION** 

& 8 downloads

Attribute this Object

"Zero Trust Security" by Chris Simpson, James Jaurez, Nancy Jones, Debra Bowen, Bill Reid, and Randy Velliquette, NSA NCAE-C Initiative is licensed under CC BY-NC-SA 4.0.

Share













**Authors** 

## Zero Trust Security











Manage a zero trust architecture
No Mappings



## Academic Levels



## Hierarchy

## Children



NSA NCAE-C Initiative

Zero Trust Architecture in Government Networks.



MODULE © 4 - 10 HOURS

Randy Velliquette at National University and 5 more Updated Aug 30, 2023

This module explores the use of ...



NSA NCAE-C Initiative

Security Operations to Support a Zero-Trust A... MODULE © 4-10 HOURS

James Jaurez at CYB Team and 5 Updated Jun 30, 2023

This module explores the condu...



NSA NCAE-C Initiative

Deploying Zero Trust in the Cloud



① 4-10 HOURS

James Jaurez at CYB Team and 5 Updated Sep 1, 2023

The module explores the deploy...





MODULE () 4-10 HOURS



Chris Simpson at National University and 5 more Updated Sep 4, 2023

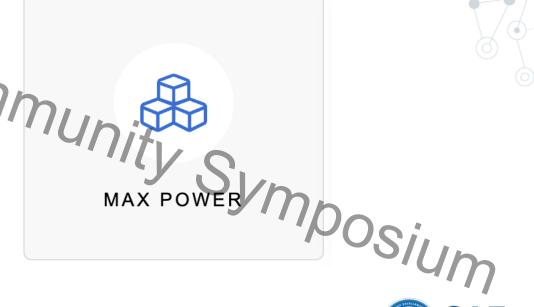
This module explores the regulat...

Threats to Zero Trust

## Construction

































# Cybersecurity Labs and Resource Knowledge-base



Bloom's Based Outcomes



Modularized Content





Compressed Downloads



## **Content Intake**



















**Best Practices** 





Resources

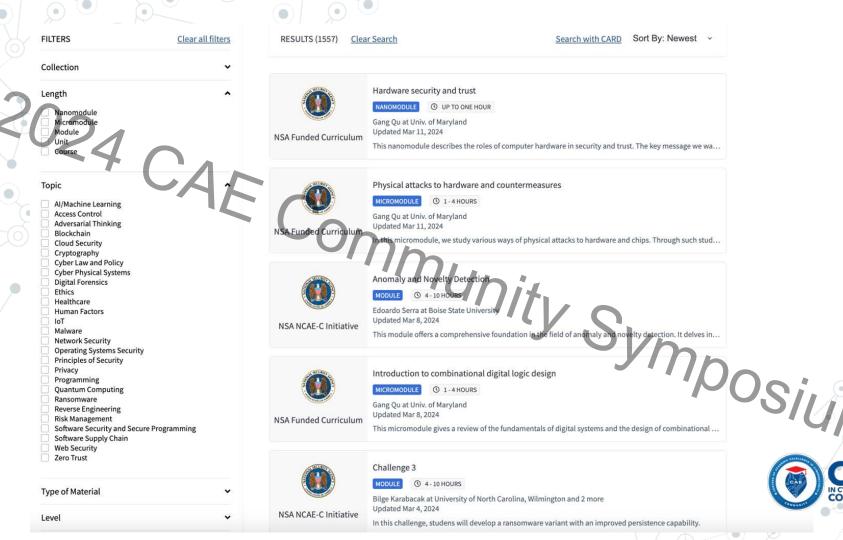






# What's available on CLARK? Munity Symposium





COMMUNITY



## Module 1 - Introduction to Networks

Last Updated 1/24/23



Child of CyberSkills2Work - Intro to Networks (DSU-0012)



NATIONAL CYBERSECURITY WORKFORCE DEVELOPMENT **PROGRAM** 

## Description

Junity Syn This module covers the introduction to network fundamentals. Each module will consist (typically) of a set of PowerPoint slides and

https://clark.center/details/cmwelu/cf9aae74-be9d-43ff-8981-a66efe685bbe



## Course Professionalism & Soft Skills Development

st Updated 2/14/24

Description

JAE Community Ethics in cyber is a hugely important step, but it isn't the entire solution to developing a trusted and competent workforce. Professionalism is also critically important and much of the higher education community can improve how they prepare students for careers in the government and industry. Students need to be prepared to join the workforce with the stills required to present a professional image, including how to present themselves to senior leadership, communicate ideas effectively and succinctly and engage with multiple stakeholders from various backgrounds that hold various opinions of proper office standards. What might be acceptable at an IT company in Silicon Valley might be wholly inadequate for work in the NSA regarding dress, behavior, etc. This curriculum is designed to develop professionalism as part of preparing to enter the cybersecurity workforce.

https://clark.center/details/greg.sayadian/0dee5cda-5839-4b8c-9da0-345c7148c1d6



& Part of the Intro to Cyber collection

## **Security Awareness Training**

Last Updated 9/5/23

Description

- AECOMMUNIA risks, ind 1. Recognize common security threats and vulnerabilities: Identify various types of security risks, including phishing attacks, social engineering tactics, malware, and physical security breaches. Understand the potential impact of these threats on organizational systems, data, and personal privacy.
- 2. Apply best practices for protecting sensitive information: Understand the importance of data privacy and confidentiality Learn how to safeguard sensitive information, including passwords, personal data, and company assets. Implement secure practices such as password management, encryption, and secure file handling.
- 3. Understand the role of employee responsibility in maintaining security: Recognize that security is a shared responsibility among all employees. Comprehend the significance of following security policies and procedures, reporting suspicious activities, and adhering to access control measures. Develop a sense of personal accountability for maintaining a secure work environment.

https://clark.center/details/vanom007/3db0f198-5031-4206-a0a4-4254ad0745fe



# Which resources are available? nunity Symposiui





## **FILTERS**

## CATEGORY

- Academic Centers
- Academic Program
- Competition Frameworks
- □ Competitions□ Conference
- ☐ Curriculum
- Cyber Ranges And Tools
- □ Grant Deliverable
- Knowledge Units
- ☐ Other
- □ Report
- Student Developed Resources
- Workshop And Materials

## **ORGANIZATION**

Q Search Organizations

## Search Resources

Total Results: 3014

## Grant Deliverable Montreat College Cybersecurity Oath

There are no notes associated with this resource.

Montreat College

Go to Resource 🗹

Sort V

## Workshop And Materials

Autonomous Systems Cybersecurity

All of the contents of this course were created for a professional workshop in collaboration with the University of Colorado Colorado Springs for an instructor camp regarding Autonomous System Security.

Sinclair Community College

Go to Resource

## Academic Program Anderson University - Cybersecurity

The BA in Cybersecurity is a National Security Agency (NSA) validated Program of Study.

Anderson University

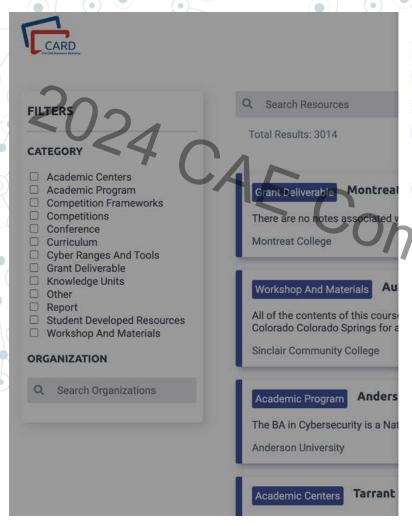
Go to Resource

**Academic Centers** 

Tarrant County College-Cyber Hub







## **Grant Deliverable: Montreat College Cybersecurity Oath**

Montreat College

## **Notes**

There aren't any notes associated with this resource.

Go to Resource [2]



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