

CW K12  
DIVISION  
GOALS

1. Increase IA Workforce Pipeline
2. Community Awareness of IA Workforce
3. Community Awareness of C3® Cyberethics, safety and security
4. Increase Security of K12 IT Systems

WHAT WE  
HAVE

Programs

Modules

Conferences

Professional  
Development

Training

Speakers  
Bureau

Awareness  
Campaigns



# CyberWatch K12 Division

HELPING SECURE OUR NATION'S INFRASTRUCTURE

## Goal 1: Increase IA Workforce Pipeline

### PROGRAMS

Informal programs are offered at the elementary, middle and high school level. Activity based cybersecurity and digital forensics topics are the focus, with parallel Cyberethics, safety and security themes included. An interdisciplinary approach engages students and adds relevance to the traditional curriculum.

Modules include: Computational thinking/Programming, Cryptography, System Vulnerabilities, Digital Forensics and C3. Students also learn about careers in computer security/digital forensics, and learn more about security clearance processes and identity management strategies.



### Summer Cyberwarrior Camp Activities

- **MINDTOOLS**-an after school elementary program.
- **JR CYBERWARRIOR**-an after school middle school program. Both meet once a week year round.
- **CYBERWARRIOR**-a 2-3 week summer program designed for high school students. Includes speakers and field trips.

### CYBERWARRIOR MODULES

Cyberwarrior Modules and lesson plans are hands-on, inquiry and design based units for elementary, middle and high school students. Math connection to creating strong passwords, Creating a SIM CARD reader, Bar Code Readers, and Cryptography are just a few of the modules.

### COOL CAREERS IN CYBERSECURITY

A full day of Cybersecurity related activities for middle school girls, and parents and teachers. Boys welcome!

### IA CAREER TECHNOLOGY EDUCATION PROGRAM

Career cluster program that extends high school to two and four-year colleges and universities, apprenticeship programs and the workplace focused on IA. Dual enrollment possible.

## Goal 2: Community Awareness of IA Workforce

### ANNUAL GUIDANCE COUNSELORS WORKSHOP

Careers in IA/IS/Cybersecurity/ Digital Forensics Workshop for Guidance Counselors. Hosted in partnership with MD & VA Departments of Education

### CYBERSECURITY PROFESSIONAL DEVELOPMENT

Most Popular Topics:

- Online Reputation Management
- Security Clearance Process What Students Need to Know
- Career Options in IS/IA/DF

- Cool Careers in Cybersecurity
- Career Pathways in Cybersecurity



CONTACT: DAVINA PRUITT-MENTLE, PH.D.  
DPRUITT@UMD.EDU  
410-531-3910

## CW K12 DIVISION GOALS

1. Increase IA Workforce Pipeline
2. Community Awareness of IA Workforce
3. Community Awareness of C3<sup>®</sup> Cyberethics, safety and security
4. Increase Security of K12 IT Systems

## WHAT WE HAVE

Programs

Modules

Conferences

Professional Development

Training

Speakers Bureau

Awareness Campaigns



# CyberWatch K12 Division

## OVERVIEW

### Goal 3: Community Awareness of C3<sup>®</sup>

#### Cyberethics, Safety and Security



#### ANNUAL C3<sup>®</sup> CONFERENCE

Since 2001, the annual C3 conference has provided a means to **inform the educational community about the ethical, legal, safety, and security implications of technology use and illustrate how educators and parents can apply these concepts to their own setting.** Tutorial sessions include practical applications that can be immediately applied to the home or classroom setting.

Participants hear from state and local educators, law enforcement, internet safety/security curriculum providers, researchers, and policy makers on a broad range

topics to include: current and pending legislation, educational initiatives available, the latest "hot topics" to include cyberbullying, identity theft and sexting, internet safety provider updates, online reputation management, newly released online interactive simulations and games that pro-

#### PRESENTATIONS SPEAKERS TRAINING

mote responsible online behavior, C3<sup>®</sup> framework and matrix, and much more. Digital Media Literacy encompasses Cyberethics, safety and security. Participants also learn how to get more actively involved in National Cyber Security Awareness Month.

**PRESENTATIONS**  
Sessions are flexible to meet school's timeframes. Delivered F2F focusing on the "top ten" security requirements as deter-

mined by CW faculty, staff and industry government partners.

#### C3 EDUCATIONAL GRANTS

Provide funding to encourage dissemination of Cyberawareness and empowering students to be ethical, responsible and resilient cybercitizens. Grants must include the integration of C3 content into existing curriculum.

#### K12 CYBERAWARENESS CONTEST

Competition for K-12 students to create posters, short videos, and interactive games for K-12 students. Winners receive cash prizes. Content will be featured on the CyberWatch website and in K-12 awareness campaigns.

#### CYBERSECURITY OLYMPIAD

Based on the National Math Olympiad, contest that will provide schools with questions to challenge students on Cybersecurity topics.

### Goal 4: Increase Security of K12 IT Systems

#### TRAINING

Workshops are conducted at partner institutions on a variety of topics determined by our annual needs assessment survey. Topics include:

- Data Recovery
- Intrusion Detection
- Wireshark

- Creating School Security Practices
- Legal Issues and Current Regulations
- Ethical Hacking

Contact: Davina Pruitt-Mentle, Ph.D.  
dpruit@umd.edu  
410-531-3910

