

2016 Cyber Security Educator's Workshop



The GenCyber teacher summer camp was part of an overall strategy to build a new Cyber Security program at Columbus State Community College. GenCyber is a key component to addressing high school recruitment and creating awareness of cyber security within our community. Our 2016 GenCyber camp was geared toward high school teachers to interest their students in a security career and educational pathway.

PARTICIPANT DEMOGRAPHICS

- 17 high schools educators throughout central Ohio
- 1 high school educator from Texas
- 13 females (72%) and 5 males (27%)

KEY ACTIVITIES



Cyber Trivia



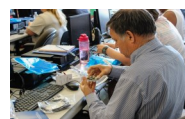
NSA Cyber Workforce



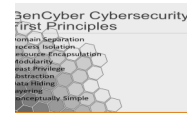
Campus Tour



Lesson Plans



Raspberry Pi



1st Principles

RECRUITMENT STRATEGIES

- Meetings with high school instructors and guidance counselors
- E-mail blasts to city districts
- Online advertisement: A) Gencyber summer camp website B) CSCC website

OUTCOMES/RESULTS

- Participants learned about current and future educational opportunities at CSCC, that include receiving college credit in high school and articulation agreements with 4 year institutions
- Educated on career pathways in cyber security, both locally and nationally
- Learned the First Principles and practiced through a card game that is shared in the class-room with students.
- Awareness of security vulnerabilities and means to mitigation
- Built a Raspberry Pi, loaded software and used Pi for several classroom activities related to cyber security
- Created lesson plans collaboratively based upon all material and content received throughout the summer camp



For more information about our Cybersecurity program, please contact:

Monique Carney, Program Coordinator
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NATIONAL SCIENCE FOUNDATION

Educator's Summer Camp: Cyber Security

Columbus State Community College is hosting an Educator's Summer Camp in Cyber Security. High school faculty, in any discipline, will receive an introduction to this emerging field. A special emphasis will put on assisting students in college credit plus and careers in cyber security.

Join us for our five-day hands-on, interactive summer workshop that will create awareness and teach practical privacy and security measures to high school faculty.

Camp Curriculum Will Include:

- *Updates on Columbus State's new Cyber Security Grant*
- *How high school students receive college credit through 2+2+2 model*
- *Lesson plans to help launch students toward lasting careers in cyber security*
- *Industry presentations on career pathways and internship opportunities*
- *How to secure your own digital world*
- *Earn a certificate of completion*
- *CEUs and \$2,000 stipend for participation*

**YOU DO NOT NEED A COMPUTER SCIENCE
BACKGROUND TO PARTICIPATE!**

August 1–5, 2016

Columbus State Community College
550 E. Spring Street Columbus, OH 43215
9:00 am - 4:00 pm

Register Today: <http://tinyurl.com/zku73kb>

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This material is based upon work supported by the
National Science Foundation under Grant No. 1501194



COLUMBUS STATE
COMMUNITY COLLEGE



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COLUMBUS STATE
CYBERSECURITY

GenCyber Educator's Workshop Agenda

Columbus State Community College

The Center for Workforce Development- Room: WD-307

August 1-5, 2016

	DAY 1	Location	Lead	Support
8:45am – 9:00am	Check-In	WD Lobby	SeAL	SeAL
9:00am – 9:40am	Welcome & Staff Introductions <ul style="list-style-type: none"> Welcome & Staff Intro K-12 Attendees Intro Workshop Overview/House Keeping 	WD 307	Gary & Monique	
9:40am – 10:00am	Ice Breaker (Cyber Game)	WD 307	Gary	Monique
10:00am – 11:00am	Hyperlink Cybersecurity Overview- <ul style="list-style-type: none"> Program Overview NICE Framework & Compression Planning 	WD 307	Gary & Monique	Lou, Bill
11:00am – 12:00pm	Campus Tour	CSCC Campus	John Sherwood	SeAL
12:00pm– 1:30pm	Lunch	WD Student Lounge- Floor 2	LA Catering	CSCC
1:30pm – 2:30pm	Industry Presentation- Improving Enterprises	WD 307	Cassandra Faris	
2:30pm – 3:30pm	Continuation Hyperlink CSCC <ul style="list-style-type: none"> NICE Framework & Job Skills Analysis 	WD 307	Gary	
3:30pm – 3:45pm	Cyber Principles Review (Card Game)	WD 307	Gary	Monique
3:45pm – 4:00pm	Wrap-Up	WD 307	Gary	Bill, Lou, Monique

	DAY 2	Location	Lead	Support
8:45am – 9:00am	Check-in & Cyber Principles Review	WD 307	Gary	Monique
9:00am – 9:20am	Cyber Principles Card Game	WD 307	Gary	Bill, Lou, Monique
9:20am – 11:00am	NSA Day of Cyber <ul style="list-style-type: none"> Intro & Demo Site Log-Ins & Trial Run 	WD 307	Gary	Bill, Lou, Monique
11:00 – 12:00pm	Industry Presentation- The internet "ghetto"	WD 307	Brent Huston	
12:00pm – 1:00pm	Lunch	WD Student Lounge- Floor 2	LA Catering	
1:15pm – 3:45pm	Build A Raspberry Pi	WD 307	Bill	Gary, Lou
3:00pm – 4:00pm	Pi Lab Activity	WD 307	Bill	Team

	DAY 3	Location	Lead	Support
8:45am – 9:00am	Check-in & Cyber Principles Review	WD 307	Monique	Gary
9:00am-10:00am	Industry Presentation- Ohio Homeland Security	WD307	Larry McWherter	
10:00am – 10:30am	Malware, Ad Blockers, Ghoster	WD 307	Bill	Team
10:30am – 11:45am	Social Networking <ul style="list-style-type: none"> Power point Presentation Open Discussion/ Stories 	WD 307	Lou & Bill	Team
11:45am – 1:00pm	Lunch	WD 307	Lou	Lou, Bill
1:00pm – 2:30pm	Password & Password Managers Cracker	WD Student Lounge- Floor 2	LA Catering	
2:30pm – 3:30pm	Pi Lab Activity	WD 307	Bill	Team
3:30pm – 4:00pm	Anti-Virus. Password Manager & Cracking Labs Continuation...	WD 307	Lou	Team

	DAY 4	Location	Lead	Support
8:45am – 9:00am	Check-in & Cyber Principles Review (optional)	WD 307	Monique	
9:00am – 9:15am	Cyber Principles Card Game	WD 307	Gary	Team
9:15am – 10:30m	Encryption <ul style="list-style-type: none"> Hardware Physical Device Security Mobile Device Security Internet communications 	WD 307	Lou	Team
10:30am – 12:00pm	PGP & Keybase.io on Pi	WD 307	Bill	Team
12:00pm – 1:30pm	Lunch- TBD	Short North	Urban Express Shuttle	
1:30pm – 3:00pm	Wireless Security/ Wireshark	WD 307	Lou	Team
3:00pm – 3:45pm	VPN (TOR for Pi) / CTF365	WD 307	Bill	Team
3:45pm – 4:00pm	Wrap- UP	WD 307	Team	Team

	DAY 5	Location	Lead	Support
8:45am – 9:00am	Surveys completed by Attendees Online	WD 307	Monique	
9:00am – 9:15am	Cyber Principles Card Game	WD 307	Gary	Team
9:15am – 10:30m	Safe E-mail <ul style="list-style-type: none"> Phishing – Social Engineer Toolkit Proton Mail 	WD 307	Bill	Team
10:30am – 11:30am	Safe Browsing	WD 307	Lou	Team
11:30pm – 12:00pm	Lesson Plans	WD 307	Bruce	Team
12:00pm-1:00pm	Lunch	WD SL- Floor 2		
1:00pm – 3:45pm	Lesson Plans	WD 307	Bruce	Team
3:45pm – 4:00pm	Closing Remarks	WD 307	Team	Team



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