

## Camp Topics

- ◆ Intro to Cyber Security
- ◆ Virtual Machines
- ◆ Routers/Firewalls
- ◆ Network Traffic
- ◆ Network Configuration
- ◆ Network Reconnaissance
- ◆ Browser Exploitation
- ◆ Passwords
- ◆ Social engineering



## Contact the CSI

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Visit us on the web at [www.uhcl.edu/sce/csi](http://www.uhcl.edu/sce/csi)

## Camp Sponsors

CYFOR Technologies  
Mauricio Rodriguez, D.D.S.  
Jason's Deli  
El Dorado Mexican Restaurant

## Keynote Speaker

Sergio Muniz (CYFOR)

## Guest Speakers

Kevin Walker (BMC)  
Samuel Sutton (FBI)  
CM Sgt Alan Carvajal (USAF)  
Fred Charlot (BRG)



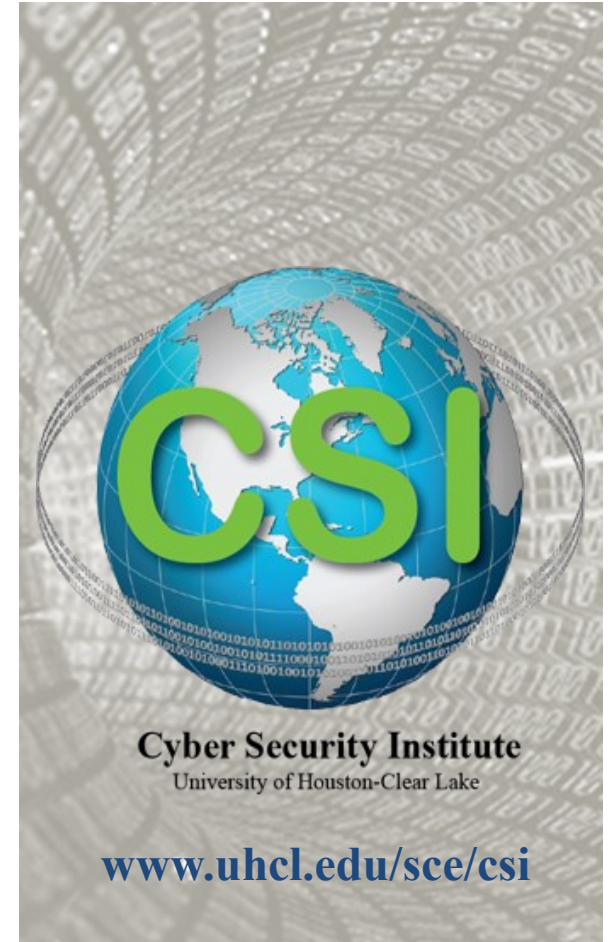
Cyber Security Institute  
University of Houston-Clear Lake  
[www.uhcl.edu/sce/csi/summer\\_camp](http://www.uhcl.edu/sce/csi/summer_camp)

For camp information, contact

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# CYBER SECURITY SUMMER CAMP

**JUNE 8-10, 2015**  
(SPACE IS LIMITED)



Facebook: [UHCL Cyber Security Institute](#)

LinkedIn Group: [UHCL-Cyber-Security-Institute-CSI-6563184](#)

## Camp Overview

From healthcare to commerce, cyber criminals are now targeting information systems today more than ever before. Cyber crime is at an all-time high and the need for sharp, knowledgeable, cyber defenders is the key to deterring these aggressive and persistent criminals.

The Cyber Security Institute's high school Cyber Security Summer Camp is designed to cultivate the next generation of cyber defenders. Held on the University of Houston-Clear Lake's campus, camp participants are exposed to ethics behind white-hat hacking, in addition to disseminating knowledge about potential cyber threats. The camp will provide hands-on experience for participants with Cisco networking gear, network assessment tools, and pre-configured systems. Students will witness and participate in various attack scenarios, mitigation techniques, and cyber awareness presented by the camp's guest speakers. Guest speakers include representatives of CYFOR Technologies, the Federal Bureau of Investigation, United States Air Force, BMC Software, Berkeley Research Group, members of the Cyber Security Institute, and others. The camp's speakers bring experience from the trenches of the cyber battleground as they disseminate knowledge about threats currently faced and how to recognize them.



## Camp Activities\*

### Learning and Awareness

- History of Hacking
- The 10 commandments of hacking
- Horror stories
- Network/Firewall configuration

### Exploitation Techniques

- Buffer overflows
- Denial of service
- SQL Injection
- ARP Spoofing
- Credential harvesting
- Cross-Site Scripting (XSS)
- Social engineering
- Password cracking

### Recon and Scanning Techniques

- Port scanning
- Ping sweeps
- Vulnerability scanning

Students will also learn about viruses, worms, and Trojans, as well as utilize useful, yet potentially dangerous tools to analyze computer and network vulnerability.

\* Activities subject to change