



Community
College
Cyber
Summit
2019

SIXTH ANNUAL
**COMMUNITY COLLEGE
CYBER SUMMIT**

SHREVEPORT/BOSSIER CITY, LOUISIANA
JULY 30 - AUGUST 1, 2019

HOSTED BY:



bossier parish community college



NATIONAL
CYBERWATCH
CENTER

SUMMIT AT A GLANCE

2019 COMMUNITY COLLEGE CYBER SUMMIT (3CS)

MONDAY • JULY 29

PRE-SUMMIT ACTIVITIES

9:00 am - 3:00 pm	IBM CyberDay4Girls at BPCC (pre-registration required)
3:00 pm - 7:30 pm	Check-in at Horseshoe Casino and Hotel
5:30 pm	Louisiana Street Party East Bank District of Shreveport

TUESDAY • JULY 30

BOSSIER PARISH COMMUNITY COLLEGE (BPCC)

7:00 am - 8:00 am	Check-In at Hotel for CSDWs
7:30 am - 8:00 am	Breakfast at Hotel for All 3CS Attendees
8:00 am - 11:00 am	Check-In at Hotel for 3CS Job Fair and 3CS
8:30 am - 4:00 pm	Girl Scout Cyber Badge at BPCC (pre-registration required)
9:00 am to 5:00 pm	Cybersecurity Skills Development Workshops (CSDWs) at BPCC <i>(additional fees apply for participation in some CSDWs)</i>
Noon	Lunch for CSDW attendees at BPCC
1:00 pm - 2:00 pm	Check-in at BPCC for 3CS Job Fair and 3CS
1:00 pm	Pizza Party for Job Fair/Career Exp. Attendees
2:00 pm - 4:30 pm	3CS Job Fair and Career Exploration at BPCC
6:00 pm - 7:30 pm	3CS Opening Plenary at Hotel • Welcome & Keynote 1 • Innovations in Cybersecurity Education Awards
7:30 pm - 9:00 pm	Sponsors Reception (heavy hors-d'oeuvres and cash bar; Krewe of Centaur second line) (family welcomed)

WEDNESDAY • JULY 31

BOSSIER PARISH COMMUNITY COLLEGE (BPCC)

7:30 am - 8:00 am	Breakfast at Hotel
8:00 am - 5:00 pm	Registration and Check-In at BPCC
9:00 am - 12:00 pm	Concurrent Sessions 1
9:00 am - 5:00 pm	3CS Showcase
11:30 am - 1:00 pm	Food Truck FUN (tent, fans, and music)
12:00 pm - 5:00 pm	Concurrent Sessions 2
3:00 pm - 4:00 pm	Ice Cream Social / Networking Event
3:00 pm - 4:00 pm	Birds of a Feather Roundtables
6:00 pm	Dinner on Your Own
7:00 pm	"Suzie Q" on the Red River: A walking tour

THURSDAY • AUGUST 1

BOSSIER PARISH COMMUNITY COLLEGE (BPCC)

7:30 am - 8:00 am	Breakfast at Hotel
10:00 am - 12:00 pm	3CS Information Desk at BPCC
9:00 am - 9:55 am	3CS Closing Plenary in BPCC Theater • Keynote 2 • Hale and Farewell
10:00 am - 11:00 am	Snacks/Networking
10:00 am - 12:00 pm	3CS Showcase
10:00 am - 12:00 pm	Concurrent Sessions 3
12:05 pm	Summit Closing - Lunch on Your Own
12:30 pm - 6:00 pm	Afternoon Activities

SAVE THE DATE!

Next year's Community College Cyber Summit will take place August 4-6, 2020 at the Centerville Campus of Sinclair Community College.

BPCC WiFi INFORMATION:

SSID: **bpcclink2**
User: **bpccguest**
Password: **saturn#99**

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ABOUT

THE COMMUNITY COLLEGE CYBER SUMMIT

The 6th Annual Community College Cyber Summit (3CS) is organized and produced by four Advanced Technological Education (ATE) centers funded by the National Science Foundation (NSF) and involved in cybersecurity. 3CS meets the perceived need for a national academic conference that focuses exclusively on cybersecurity education at the community college level. Faculty, administrators, students, and other stakeholders in community college cybersecurity education are invited and encouraged to attend. This year's 3CS again includes a Job Fair and Career Exploration event, so students have an additional motivation to attend, and we are most grateful for supplemental NSF funding to support student travel.

THEME

CHANGE IS NOW! - The role of community colleges in preparing students for cybersecurity jobs is changing. We must focus anew on workforce development and on the NICE Job Roles. We must raise our capability maturity level. We need evidence-based measures of program effectiveness. We need new programs, program components, courses, labs, practices, and methods of instruction.

What makes 3CS different? Why should someone attend? Why is this not just another typical academic conference? Here's why: 3CS focuses on topics not typically addressed at other conferences, including:

- Advanced technical workshops for experienced community college faculty.
- New techniques and strategies both within and outside the classroom that community college faculty and administrators can adopt to strengthen their existing cybersecurity education courses and programs.
- New research on community college cybersecurity education.
- Vendor exhibits that emphasize cybersecurity education at the community college level.
- The 3CS Job Fair and Career Exploration event plus a Student Track running throughout the conference.

DIGITAL BADGES

A new feature of this year's 3CS is the opportunity to earn digital badges to document your 3CS participation. Badges are available for participation in one of the all-day Cybersecurity Skills Development Workshops, being a presenter at a 3CS concurrent session, and/or 3) attending the Summit. Each badge has its own documentation requirements (spelled out in the EduPlus Mobile App). Badges will be issued two weeks after the Summit.

EDUPLUS MOBILE APP

3CS will again use the EduPlus Mobile App. Please download the app to your mobile device, and search for "2019 Community College Cyber Summit". You will then use this app before and during the Summit for the following tasks:



- Create your own schedule for concurrent sessions (workshops and presentations).
- Find each session. The app includes session locations and descriptions, presenter bios, and campus maps.
- Evaluations: At the end of every plenary and concurrent session, find that session on the mobile app and submit a quick (4-question) evaluation. Also please complete the Overall 3CS Evaluation at the end of the conference and before you head for home.
- 3CS Perks! This section has the conference WiFi code, information new to 3CS 2019, coupons/discounts from sponsors/producers, and "Quotable Quotes" where attendees can submit a heartfelt quote to be entered into a \$50 Amazon gift card drawing.



OPPORTUNITY IS KNOCKING!

California Cyberhub is offering a unique opportunity for Community Colleges and other higher education institutions across the U.S. to work with one of the leading cybersecurity companies in the nation and build-out competition scenarios focused on the Department of Homeland Security designated critical infrastructures.

Details, submission dates, and processes, visit:

www.ca-cyberhub.org/resources/opportunity-is-knocking/



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WELCOME

FROM DR. RICK BATEMAN, JR.

Welcome to Northwest Louisiana and to the 6th annual Community College Cyber Summit, hosted by Bossier Parish Community College!

We like to say "*laissez les bon temps rouler*" which means "*let the good times roll!*" We encourage you to enjoy your time as you experience Louisiana culture, Cajun Creole cuisine, music from the bayou, and our famous Southern hospitality.

This year's summit promises hands-on pre-conference workshops, inspirational keynote sessions, and networking opportunities, along with a robust IT job fair. Concurrent sessions feature transformative best-practices, new curricula, and breakout technologies - content you can take back to engage your students and your local industry partners.

Information technology has now been woven directly into the fabric of every industry sector. As a result, demand for IT talent continues to open opportunities for our students. To keep up with the rate of change in IT, it's crucial that we invest in our own personal professional development and that we make the most of opportunities to attend events such as 3CS. I applaud you on making these efforts!

3CS has come to Bossier Parish Community College because we're a nationally recognized, key partner in the growth and development of the North Louisiana Cyber-Corridor. BPCC's cyber designations include its status as a National Center of Academic Excellence (CAE-2Y) and as Louisiana's Center of Workforce Excellence in Cyber Technology. Cyber innovation and instructional delivery are what we do best!

Louisiana Governor John Bel Edwards recently announced the formation of a new Cyber Education Center in partnership with Cybint Solutions. Located at BPCC, the Center will serve as the hub for cyber security training in North Louisiana. Students will learn in simulated, cyber-range environments aligned with existing and emerging industry demands.

Governor Edwards also announced a partnership with Amazon Web Services where BPCC and Louisiana's Community and Technical College System will develop the first statewide Cloud Computing degree with AWS content.

We're proud of our efforts at BPCC, in our region, across Louisiana, and of our colleagues nationwide. We're excited you've joined us, and we're confident your time here will be well-spent!

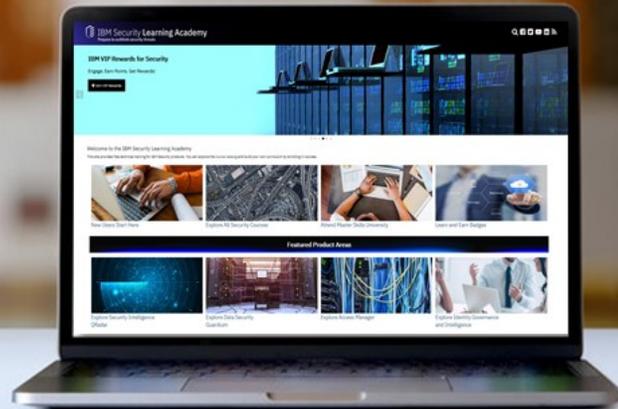
Laissez les bon temps rouler!



Rick Bateman Jr., Ph.D.
Chancellor



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IBM Security

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WELCOME

FROM NATIONAL CYBERWATCH CENTER

Dear Colleagues,

On behalf of the National CyberWatch Center I want to welcome you to this, the sixth annual Community College Cyber Summit (3CS)!

This year's theme is Change is Now. As you attend the various presentations, participate in the hands-on workshops and plenaries, and talk with our sponsors and your colleagues over the next several days, consider how you will implement the innovations you are learning about at the Summit and continue to change and evolve your programs and pedagogical approaches to keep pace with ever accelerating technologies and threat landscapes.



Also, consider putting the community back into Community Colleges by:

- Continuing to create value through programs and services that get applied broadly across various industries
- Expanding opportunities to scale ideas and attract new sources of funding
- Integrating business into the community college equation, and
- Enhancing the unique learning needs to combat ever-changing and damaging attacks on our personal data and critical infrastructure

The 3CS Steering and Program Committees have worked hard over the past year to ensure that this year's event continues to provide a forum for community college faculty and leadership to share new initiatives, model programs, and effective practices, while retaining the high quality associated with this event.

I hope you all have a great 2019 3CS and are able to enjoy some of what makes Louisiana so fun and unique.

Sincerely,

A handwritten signature in black ink, appearing to read 'Casey W. O'Brien'.

Casey W. O'Brien
Executive Director & Principal Investigator
National CyberWatch Center





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WELCOME AND THANK YOU

FROM DR. BOB SPEAR

Merci Beaucoup!

Every year I am more impressed with the outstanding group of volunteers and staff who bring this thing off. You are an amazing collection of pro's.

The 2019 edition of 3CS offers 100+ breakout sessions, all freely contributed by 3CS attendees. Your presenter-colleagues want to improve your classrooms and your college's cybersecurity programs. Every session offers a take-away that you can apply to your own courses or your own college. We are grateful to the presenters as well as the Program Committee, and especially the Chair, Anna Carlin.



3CS again features a Job Fair and Student Career Exploration. We expect about 100 students and 15 employers to participate. Vera Zdravkovich chairs the Job Fair Advisory Committee and does much of the legwork and the cheerleading that make the job fair happen.

We continue to grow Sponsors and Partners. Since the first 3CS in 2014, the number of organizations supporting 3CS has risen every year. This year 3CS has 37 sponsors and partners, including 1 Diamond level, 8 Platinum, 7 Gold, and 17 Silver, plus 4 Government partners. I'd like to thank the sponsors and the Sponsorships Committee, chaired by Casey O'Brien.

National CyberWatch Center is the organizing producer of 3CS, but we get lots of help from the other cybersecurity-related ATE centers, CSSIA and CyberWatch West. A total of 52 people served on various 3CS committees, soliciting session proposals, reviewing proposals, filling empty slots, handling a zillion logistics details, and encouraging members and partners to attend. Thanks to the three PI's: Casey O'Brien, John Sands, and Corrinne Sande.

For our first venture in the South, we could not have found a better host college. Bossier Parish Community College (BPCC) has proved an excellent partner. Chris Rondeau, as the lead for BPCC, has facilitated all aspects of the Summit at the host institution. And the support of the institution's leader, Chancellor Rick Bateman, has been unstinting.

We again enjoy terrific support from Fran Melvin (Finance Chair) and Lynn Dohm (Tactical Committee).

Have a great time at the 2019 Community College Cyber Summit. And as Chancellor Bateman said,

Laissez les bon temps rouler!

A handwritten signature in black ink that reads "Bob".

Dr. Bob Spear, 3CS Chair



THANKS

TO THE ORGANIZATIONS WHO MAKE 3CS POSSIBLE

PRODUCERS



SPONSORS



JOB FAIR AND CAREER EXPLORATION PARTNERS



GOVERNMENT PARTNERS



SPECIAL THANKS TO OUR HOST COLLEGE:



THANKS

TO THE 3CS COMMITTEES AND STAFF

2019 3CS STEERING COMMITTEE

Bob Spear, Chair	Corrinne Sande	John Sands	Vera Zdravkovich
Anna Carlin	Craig Spohn	Lynn Dohm	
Casey O'Brien	Deborah Boisvert	Pat Tamburelli	
Chris Rondeau	Fran Melvin	Tom Pigg	

2019 3CS PROGRAM COMMITTEE

Anna Carlin, Chair	Dan Manson	Glenn Dardick	Latasha McCord	Thomas Pigg
Bob Spear	David Tobey	John Sands	Nelbert St. Clair	
Casey O'Brien	Deborah Boisvert	Johnathan Yerby	Patrick Vilkinofsky	
Corrinne Sande	Gary Kessler	Kevin Floyd	Philip Craiger	

2019 3CS SPONSORSHIP/FUNDRAISING COMMITTEE

Casey O'Brien, Chair	Bob Spear	Dan Manson	Lynn Dohm
Barbara Belon	Charline Nixon	Fran Melvin	Tracy McGill

2019 3CS TACTICAL SUPPORT COMMITTEE

Lynn Dohm, Chair	Fran Melvin	Joe Tamburelli	Michael Gonzalez
Anita Shelton	Ginny Swyndroski	Lewis Lightner	Pat Tamburelli
Chris Rondeau	Gus Hinojosa	Michael Burt	

2019 3CS JOB FAIR ADVISORY COMMITTEE

Vera Zdravkovich, Chair	Carl Willis-Ford	Gus Hinojosa	Lynn Dohm	Pat Tamburelli
Dan Manson	Corrinne Sande	John Sands	Marian Merritt	Paul Spivey
Barbara Belon	David Tobey	Lewis Lightner	Michael Burt	Stanley Kostka
Bob Spear	Fran Melvin			

BOSSIER PARISH COMMUNITY COLLEGE COMMITTEE

Chris Rondeau, Chair	Crystal Ashby-Tuggle	Paul Spivey
Mike May	Wesly Bange	Tracy McGill
Chad Johnston	Megan Martin	Kevin Nolton

Program design and layout by Michael Gonzalez, CSSIA

IBM SPONSORED TRACKS SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

TUESDAY • JULY 30

IBM CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am - 5:00 pm	Intro to IBM's QRadar (FULL DAY WORKSHOP) Session ID: CSDW-3 • Track/Format: Track 2/Full Day Workshop	E-204

WEDNESDAY • JULY 31

IBM CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am - 10:55 am	How to Level Up: Experiential Learning through Gamification Session ID: M1-2 • Track/Format: Track 2/Mini-Workshop	G-218
10:00 am - 10:55 am	Looking for academic resources? IBM has you covered! Session ID: P02-8 • Track/Format: Track 4/Other Presentation	E-305
12:00 pm - 12:55 pm	From Battlefield to Cyberspace: How Veterans Can Help Fill the U.S. Cybersecurity Workforce Gap Session ID: P04-5 • Track/Format: Track 4/Panel Presentation	E-215
12:00 pm - 1:55 pm	Think that apprenticeships can't work in cybersecurity? Think again. Session ID: M2-3 • Track/Format: Track 4/Mini-Workshop	G-325
1:00 pm - 1:55 pm	CPTC - Building Tomorrow's Cybersecurity Experts Session ID: P05-8 • Track/Format: Track 4/Other Presentation	E-305
3:00 pm - 5:00 pm	Intro to IBM QRadar Session ID: M3-3 • Track/Format: Track 2/Mini-Workshop	G-325
4:00 pm - 5:00 pm	Build It, and They Will Come: Learn how IBM volunteers built #IBMCyberDay4Girls Session ID: P08-4 • Track/Format: Track 4/Other Presentation	E-213

*Please see the Daily Schedule for full Session Descriptions and Presenters.

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

MONDAY • JULY 29

PRE-SUMMIT ACTIVITIES

TIME	DESCRIPTION
9:00 am - 3:00 pm	IBM CyberDay4Girls at BPCC (pre-registration required)
3:00 pm - 7:30 pm	Registration/Check-In at Horseshoe Casino & Hotel
5:30 pm	Louisiana STREET PARTY at East Bank District of Shreveport Description: <i>This is a mega dose of Louisiana style and flare - one night out, not to be missed! Grab some 3CS friends, bring your family, and head to the East Bank district to hang with the locals in this open-air spectacular! \$5 specials, outdoor bands, ax throwing, giant Jenga, and more!</i>

TUESDAY • JULY 30

2019 COMMUNITY COLLEGE CYBER SUMMIT (3CS) - DAY 1

TIME	DESCRIPTION
7:00 am - 8:00 am	Check-In at Hotel for Cybersecurity Skills Development Workshops (CSDWs) Note: <i>Additional fees apply for participation in some CSDWs.</i>
7:30 am - 8:00 am	Breakfast at Hotel for all 3CS Attendees
8:00 am - 11:00 am	Check-In at Hotel for 3CS Job Fair and 3CS
8:15 am	Bus transportation from Hotel to BPCC for Pre-Summit Meetings
8:30 am - 4:00 pm	Girl Scout Cyber Badge at BPCC (pre-registration required)

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DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

TUESDAY • JULY 30

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am - 5:00 pm	CYBERSECURITY SKILLS DEVELOPMENT WORKSHOPS (CSDWs) Hands-On Cryptography Session ID: CSDW-1 • Track/Format: Track 2/Full Day Workshop Presenters: Casey O'Brien, Executive Director/PI, National CyberWatch Center Description: This workshop will provide a high-level look at both classical and modern cryptographic techniques. The goal of this Workshop is to provide the participant with an IT/operations-based approach to securing information both at rest and in-transit. It is NOT designed to explore the mathematics of cryptographic primitives. This Workshop is taught in both lecture and hands-on formats. Upon completion of the Workshop, learners will receive all instructional materials and guidance on how to incorporate them into their classes.	E-226
	Secure Scripting Session ID: CSDW-2 • Track/Format: Track 2/Full Day Workshop Presenters: Christian Servin, Faculty, El Paso Community College Description: Secure scripting is essential to cybersecurity, information technology, and computer science education. This workshop will provide professional development to attendees on basic concepts and advanced techniques in secure scripting using a set of curriculum materials developed by the NSF-funded C5 project. The materials align with learning outcomes in the NSA CAE "Basic Scripting or Introductory Programming" knowledge unit. Designed to be flexible and adaptable, faculty can select some or all of the module's units. In addition, the materials carry a creative commons license providing faculty with the ability to make derivatives as they see fit. Hands-on learning activities include secure scripting in BASH and Python languages, as well as Linux basics.	E-214
	Intro to IBM's QRadar Session ID: CSDW-3 • Track/Format: Track 2/Full Day Workshop Presenters: Luis Latas, WW Technical Sales Enablement - Security Intelligence Lead, IBM Description: This workshop will provide a high-level look at IBM QRadar. The IBM QRadar Security Intelligence Platform provides a unified architecture for integrating core functionality to prevent, detect and respond to attacks, including security analytics, threat hunting, incident response, and threat intelligence with network and endpoint protection, into one centralized Security Operations Center user interface. This workshop combines both lecture and hands-on content designed to provide participants with the inspiration and resources to explore incorporating IBM QRadar into their classes.	E-204
	Cybersecurity Skills Journal (CSJ): Paper Development Workshop (PDW) Session ID: CSDW-4 • Track/Format: Track 2/Full Day Workshop Presenters: David Tobey, Managing Editor, CSJ, National CyberWatch Center Description: The PDW will consist of two parts. First, an introductory session led by David Tobey (managing editor) and members of the editorial board to discuss the manuscript review process, provide pointers on how to translate practice experiences into a scholarly article, and touch on various other topics relevant to authors seeking to publish in CSJ. Second, during the main session, groups of authors (with substantially related papers) will be paired with two CSJ Editors/peer reviewers for constructive feedback. The lunch break provides an excellent opportunity for scholars to have individual discussions with the CSJ editorial team.	E-203

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

TUESDAY • JULY 30

2019 COMMUNITY COLLEGE CYBER SUMMIT (3CS) - DAY 1

TIME	DESCRIPTION
11:00 am	Bus from Hotel to Louisiana Downs for Invited Luncheon
12:45 pm	Bus from Louisiana Downs to BPCC for Job Fair and Career Exploration Set-Up
12:45 pm	Bus from Hotel to BPCC for 3CS Job Fair and Career Exploration Attendees
1:00 pm - 2:00 pm	Check-in at BPCC for 3CS Job Fair and 3CS
1:00 pm - 1:30 pm	Setup display tables for 3CS Job Fair
1:00 pm	Pizza Party for Job Fair and Career Exploration Attendees
2:00 pm - 4:30 pm	3CS Job Fair and Career Exploration at BPCC
4:30 - 5:00 pm	Display Tables Break-Down
4:45 pm & 5:15 pm	Bus from BPCC to Hotel
	3CS OPENING PLENARY Horseshoe Casino & Hotel - Room - River Dome (6:00 pm - 7:30 pm)
6:00 pm - 6:15 pm	Introductions/Welcomes <ul style="list-style-type: none"> • Dr. Rick Bateman, Chancellor, Bossier Parish Community College • Casey O'Brien, Executive Director, National CyberWatch Center • Bob Spear, Chair, 3CS
6:15 pm - 6:30 pm	Innovations in Cybersecurity Education Awards <ul style="list-style-type: none"> • Presented by Casey O'Brien
6:30 pm - 7:30 pm	Keynote Address: John Bel Edwards, Governor of Louisiana <ul style="list-style-type: none"> • <i>On January 11, 2016, John Bel Edwards was sworn in as the 56th Governor of Louisiana. In his first official act, Gov. Edwards signed an executive order to expand Medicaid coverage to 430,000 of the state's working poor. The decision to expand Medicaid cut Louisiana's uninsured rate from 24 percent to just 10 percent, saving lives and improving the quality of life for citizens across the state. Gov. Edwards considers this the easiest big decision he's had to make as Governor. (To view full bio, please use the 3CS EduPlus Mobile App.)</i>
7:30 pm - 9:00 pm	Sponsors Reception (heavy hors-d'oeuvres and cash bar, family welcomed) <ul style="list-style-type: none"> • <i>Krewe of Centaur</i> will honor #3CS2019 with their royalty at the opening reception to kick it off with a second line, a Louisiana tradition!



DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

SESSION TYPE

“Workshop” identifies a three-hour session in an attendee-participation format.

“Mini-Workshop” identifies a two-hour session in an attendee-participation format.

“Presentation” identifies a one-hour session in a variety of possible formats.

TRACKS

Track 1 – Evidence-Based

Track 3 – Practice

Track 5 – Student

Track 2 – Instruction

Track 4 – Program Development

WEDNESDAY • JULY 31

2019 COMMUNITY COLLEGE CYBER SUMMIT (3CS) – DAY 2

TIME	DESCRIPTION	LOCATION
7:30 am - 8:00 am	Breakfast at Hotel	
8:15 am	Bus transportation from Hotel to BPC	
8:00 am - 5:00 pm	Registration and Check-In at BPC, 1st Floor	Building F
8:30 pm - 9:30 pm	Exhibit Setup for 3CS Showcase in the Student Union	Building F
9:00 am - 11:55 am	CONCURRENT WORKSHOPS 1	
	SCADA/Industrial Control Systems Security Session ID: W1-1 • Track/Format: Track 3/Workshop Presenters: Shalon Simmons, Adjunct Professor, Oklahoma State University Tulsa Description: Industrial Control Systems/SCADA play an essential role in our nation's Critical Infrastructure. However the security of Industrial Control Systems has been largely ignored because the networks have been traditionally separate from the rest of the corporate infrastructure. With advancements in the Internet of Things many Critical Infrastructure systems can be controlled by mobile devices such as smart phones, corporate network computers, etc. This presentation will provide information on how to build an Industrial Control Systems/SCADA Security class and/or program based on the Department of Homeland Security Industrial Controls System Computer Emergency Response Team curriculum.	E-204
	Make Learning Cybersecurity FUN by Using Capture the Flag Session ID: W1-2 • Track/Format: Track 2/Workshop Presenters: B Bagby, Assistant Professor, Virginia Western Community College (Lead); Sandra Schiavo, Lead Courseware Coordinator, Virginia Cyber Range Description: If done well, a capture-the-flag competition (CTF) is an educational experience disguised as a competition! It's hard not to get excited after teaching yourself a new skill, finding a flag, then being rewarded with CTF points. This workshop will introduce you to different types of capture-the-flag competitions and describe how they have been used with students and IT professionals to drive interest and enhance learning in cybersecurity topics. You will also get to participate in a capture-the-flag competition. So... Bring your laptop!	E-214

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am – 11:55 am	CONCURRENT WORKSHOPS 1 (cont.) Programming Smart Contracts in Ethereum Blockchain using Solidity Session ID: W1-4 • Track/Format: Track 3/Workshop Presenters: Debasis Bhattacharya, Assistant Professor, University of Hawaii Maui College (Lead); Mohammad Azhar, Assistant Professor, Borough of Manhattan Community College Description: <i>This workshop introduces participants to programming smart contracts using Ethereum Blockchains and the Solidity programming language. Cryptocurrencies such as Bitcoins use Blockchains and Smart Contracts to enforce transactions. Given the popularity of Bitcoins and related technologies in the press, this module provides a module for CS educators to introduce the underlying technology into their classrooms. Participants receive handouts describing sample programming techniques and worksheets for creating basic smart contracts. The workshop proceeds in three sessions in which we: present the underlying technology of Ethereum; practice the creation of smart contracts using the Solidity programming language; and discuss the implementation of this module in our classrooms in small groups. Further information, sample code and workshop handouts can be found at the UH Maui College site at: http://maui.hawaii.edu/cybersecurity.</i>	E-226
	Capture the Flag with Escalate Session ID: W1-5 • Track/Format: Track 5/Workshop Presenters: Adam Zeanchock, Cyber Security Instructor, Point3 Security Inc. (Lead); Evan Dornbush, CEO, Point3 Security Inc. Description: <i>Escalate is a cybersecurity ecosystem allowing students to cultivate their cyber talent. The ecosystem empowers students to succeed in hands-on challenges tackling complex threats among the community with the support of master craft mentors. The ecosystem will push your capabilities to new limits and leverage multiple skill sets including defensive hunting, implant development, reverse engineering, exploitation, network forensics, and foundations. Join us for a capture the flag workshop where you can select from over 100+ challenges to work on underlying technology into their classrooms.</i>	E-303
9:00 am – 10:55 am	CONCURRENT MINI-WORKSHOPS 1 Design Computer Forensics Competitions Session ID: M1-1 • Track/Format: Track 1/Mini-Workshop Presenters: John Watkins, Assistant Professor, Westchester Community College (Lead); Joseph Tolve, Student, Westchester Community College Description: <i>In the past eight years, I have implemented a Computer Forensics Competition with two local Community Colleges. The event became an exciting method for students who completed the Computer Forensics course in both schools where they apply their investigative and technical skills. This workshop will demonstrate what is necessary to create this type of event and participants will have access to a live experiment with a sample investigation, performing as if they were competing in the competition.</i>	G-216

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am – 10:55 am	CONCURRENT MINI-WORKSHOPS 1 (cont.)	
	<p>How to Level Up: Experiential Learning through Gamification Session ID: M1-2 • Track/Format: Track 2/Mini-Workshop Presenters: JC Vega, Executive Security Advisor & Cyber Range Coach, IBM Security Description: <i>Want to learn how an epic clash between hackers turns into a battle of survival? How an intense, immersive experience builds critical cybersecurity skills? This talk highlights how storytelling, gamification and theater arts are used in a realistic environment to experience cybersecurity.</i></p>	G-218
	<p>Become an NSA CAE Peer Reviewer or Mentor Session ID: M1-3 • Track/Format: Track 4/Mini-Workshop Presenters: Margaret Leary, Chair, Cybersecurity, Northern Virginia Community College (Lead); Stephen Miller, Professor/Director, Eastern New Mexico University-Ruidoso Branch Community College/CyberWatch West Description: <i>Giving back to the CAE Community is an NSA expectation of CAE-CDEs and CAE2Ys. In this mini-workshop, Margaret Leary and Stephen Miller, Directors of two of NSA's National Resource Centers, will provide training to cybersecurity faculty who have assisted with their CAE and CAE2Y designation efforts to become qualified as paid Peer Reviewers and Mentors. Participants will learn "best practices" for application documentation to help their mentees' submissions to be successful.</i></p>	G-325
<p>There were NO Refreshments at Network(ing) events. Tales of a Clueless Cybersecurity Student. Session ID: M1-4 • Track/Format: Track 5/Mini-Workshop Presenters: Marylyn Harris, Student, Harrland Healthcare Consulting LLC Description: <i>In 2018, Marylyn Harris, returned to her alma mater, Houston Community College (HCC). After Hurricane Harvey, Harris lost her job and received a grant from the local Texas workforce to pursue Cybersecurity. This session highlights Harris' noteworthy resources and experiences as a "Clueless" Cybersecurity Student. Harris entered the Associate of Applied Science (AAS) Degree Program having no career path nor knowledge of CompTIA's Network+ or Security+ Industry Certifications. During her first semester, Harris studied Networking Fundamentals and IT Security. She located a Cybersecurity faculty tutor and started attending Cybersecurity events weekly, off-campus.</i></p>	G-203	

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am – 9:55 am	<p>CONCURRENT PRESENTATIONS 1</p> <p>Exploring the Impact of Incorporating Challenge-Based Learning into the Classroom Session ID: P01-1 • Track/Format: Track 1/Other Presentation Presenters: Brian Hurley, Associate Professor/Cybersecurity Program Coordinator, Metropolitan Community College- Kansas City Description: <i>One of the major focuses of cybersecurity research and program development over recent years has been building best practices for cybersecurity education, and particularly increasing capability maturity. Capability maturity is critical because it means that students are ready to enter the workforce, perform well, and adapt to various job roles. Challenge-based learning platforms such as capture-the-flag activities and cybersecurity competitions are a great way students are able to learn, problem solve, think critically as a defender and adversary, and do everything under pressure; all skills very important to a cybersecurity professional. This session explores the findings of an NSF funded research project that investigated the impact of incorporating challenge-based learning into the classroom at Metropolitan Community College-Kansas City. Discussion of findings will include thoughts on best practices and implementation strategies.</i></p>	E-203
	<p>DREAMs - Developing Rigorous and Enhanced Academic Modules Session ID: P01-2 • Track/Format: Track 2/Other Presentation Presenters: Greg Teets, Associate Professor, Clark State Community College (Lead); Danis Heighton, Professor, Clark State Community College Description: <i>Clark State Community College is working with high schools to engage students who are considering cybersecurity as a career field. This session will explain how we developed approximately 30 hands-on cybersecurity laboratory modules that are specifically designed for delivery within a high school classroom environment. The module development process considered appropriate content, timing, methods of delivery, and incremental development of knowledge and skills. The lab modules developed cover entry-level cybersecurity knowledge and skills that map to in-demand industry certifications, and the modules also mapped to the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework. An advisory board consisting of college, high school, business, military, and government experts provided guidance on the topics, content, etc</i></p>	E-205
	<p>Institutionalizing the NIST Cyber Security Framework Session ID: P01-3 • Track/Format: Track 2/Software Demo Presenters: Glen Salo, President, Heartland Science and Technology Group Description: <i>The NIST Cyber Security Framework (CSF) is the standard approach for non-governmental organizations to identify, assess, and manage cyber risks. The Cyber Secure Dashboard, an online application, operationalizes the CSF in a learn-by-doing approach designed to facilitate institutional adoption of cybersecurity best practices. The Dashboard integrates industry best practices, security and privacy controls, assessment processes, and a sophisticated plan of actions and milestones in the construct of the CSF to provide all relevant documentation, guidance, and resources when, and as, needed. This presentation will show how the CSF can be implemented, understood, and adopted by organizations of all sizes, and how this adoption can be used to secure entire supply chains.</i></p>	E-206

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am – 9:55 am	CONCURRENT PRESENTATIONS 1 (cont.)	
	<p>A Student & Director’s Journey: Cultivating the Nation’s Largest Cybersecurity Student Association Session ID: P01-4 • Track/Format: Track 5/Other Presentation Presenters: Gustavo Hinojosa, Executive Director, NCSA, National CyberWatch Center Description: Join us as Gustavo Hinojosa, Executive Director of the National Cybersecurity Student Association shares his educational and professional journey. Starting with his community college experience, he will provide tricks and tips from clubs, to student government, to cyber competitions and cultivating relationships with professional organizations and their members. Continuing into his bachelor’s degree, he found the value in networking, professional development and personal branding; along with understanding the financial responsibility and payback planning with student loans. During his master’s degrees, he joined several technology related boards to give back to the community and shares his insight of its importance. Also, learn how he became the Director of the largest and only cybersecurity student association in the United States of America.</p>	E-213
	<p>Cyber Up! Digital Forensics & Incident Response - NSF ATE Project Session ID: P01-6 • Track/Format: Track 4/Other Presentation Presenters: Tobi West, CIS/CST Department Chair, Coastline College (Lead); Anna Carlin, Professor, Fullerton College Description: To increase national security for the U.S. & meet its workforce needs, cybersecurity education must develop new knowledge & skills. To address this need, the Cyber Up! Digital Forensics & Incident Response (DFIR) project at Coastline College in California will research, create, adapt, adopt, & implement a suite of course content that supports a Cert. of Achievement & an A.S. degree. The 3-year project will run 10/2018-09/2021 (NSF ATE Award #1800999). The DFIR distance education modalities will be designed for a national reach & assist in preparing students for successful employment. Because of the adoptable, modular content, other institutions can benefit through adoption into their programs, creating pathways to greater skills & knowledge for students & professionals. Increasing skills & knowledge in diverse & underrepresented populations in cybersecurity will help to assure increased participation of women, minorities, & special populations in STEM education & in the STEM workforce.</p>	E-224

DAILY SCHEDULE

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WEDNESDAY • JULY 31

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
9:00 am - 9:55 am	<p>CONCURRENT PRESENTATIONS 1 (cont.)</p> <p>CyberCorps SFS Community College Cybersecurity Pilot Program Session ID: P01-7 • Track/Format: Track 3/Panel Presentation Presenters: Kyle Jones, Department Chair, Sinclair Community College (Lead); Michael Qaissaunee, Faculty/Department Chair, Brookdale Community College; John Sands, Director, CSSIA, Moraine Valley Community College; Stan Kostka, CRRC Manager, Moraine Valley Community College Description: In 2018, NSF awarded a group of community colleges funding to establish a stand alone CyberCorps SFS program. These community Colleges received funding for student scholarships, tuition and related costs. The session will review the recruiting and selection process, the different curriculum pathways and describe the target audience to receive these scholarships. Learn how these institutions have collaborated to establish a cohort of students across multiple institutions. Find out the details of this program and experiences from each of the institutions participating in the program. Also learn how new funding opportunities may be available to your institution and students from the CyberCorps SFS program.</p>	E-221
	<p>0 to 100: Building a Network of Cyber Security Professionals Session ID: P01-9 • Track/Format: Track 5/Panel Presentation Presenters: Paul Woodard, Vice President, Cyber Security Club of CSN (Lead); Daniel Liu Description: From starting an unofficial club to becoming a contender for the colleges Club of the Year Award. The Good, the Bad, and the Ugly of building a cyber security club at a community college.</p>	E-317
9:00 am - 5:00 pm	<p>3CS Showcase (Exhibits by Academic, Commercial and Federal Partners)</p>	Building F
10:00 am - 10:55 am	<p>CONCURRENT PRESENTATIONS 2</p> <p>Hands-on Approach to Teaching Cybersecurity and IT/Networking Session ID: P02-3 • Track/Format: Track 2/Software Demo Presenters: Hau Nguyen, Professor, Grossmont College Description: This talk will discuss various hands-on approaches to teaching Cybersecurity and IT/Networking courses. It will leverage interactive materials and hands-on virtual lab environments. It will also illustrate how materials can be integrated with Learning Management Systems. It will also describe best practices and tips and tricks for successful deployment of Cybersecurity and Networking courses.</p>	E-206

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MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
10:00 am - 10:55 am	CONCURRENT PRESENTATIONS 2 (cont.)	
	<p>What's Next? Session ID: P02-4 • Track/Format: Track 3/Software Demo Presenters: Kevin Keh, Cybersecurity Platform Developer, ISACA Description: You have an essential understanding of the fundamentals of cybersecurity, but what's next? This session will outline the importance of hands-on technical knowledge and skill in addition to grasping theoretical principles. Applying these skills is often times overlooked in various fields of education, but current and future cybersecurity professionals can challenge the status quo. This session will lay out the significance of improving the science and art of cybersecurity education.</p>	E-213
	<p>Navigating the Cybersecurity Curriculum Gauntlet: From Industry Needs to Student Interest Session ID: P02-5 • Track/Format: Track 4/Other Presentation Presenters: Gary Wallace, Chair of Engineering and Technology, Delgado Community College Description: Many programs are teaching Computer Security rather than Information Security and few are teaching Information Assurance. All are often confused with Cyber-Security. These security-related fields must incorporate knowledge of Operating Systems and Networking. To meet industry needs, programs must strengthen the Operating Systems and Networking courses available. Delgado Community College is currently teaching Information Security Administration to support students successfully attaining Industry required CISSP and SSCP certifications. DCC has proposed a Cyber-Security Engineering program being reviewed for ABET accreditation and supported by both ISC2 and DHS. If successful, this will be a first for any two-year college. This briefing will clarify security-related fields of study and the hurdles, processes, and issues related to curriculum, where to start, and how to implement.</p>	E-215
	<p>Measuring the Impact of Community Colleges on Preparing the Cybersecurity Workforce Session ID: P02-7 • Track/Format: Track 1/Panel Presentation Presenters: John Sands, Director, CSSIA, Moraine Valley Community College Description: CyberWatch West and the CSSIA Center commissioned a study of 12 community colleges to measure their impact in preparing students for the cybersecurity workforce. The study involved identifying and interviewing graduates from each institution to identify the impact community college programs had on their ability to obtain a job in the cybersecurity workforce. The data collected was cross walked with the NICE framework to identify which areas of specialization and work roles these graduates now occupy. This data will be used in funding future community college programs. The data will identify which work roles community colleges are best equipped to meet. This data will also be used to leverage federal agencies to consider community college graduates for positions that currently require a full four year undergraduate degree.</p>	E-221

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MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
10:00 am - 10:55 am	<p>CONCURRENT PRESENTATIONS 2 (cont.)</p> <p>Looking for academic resources? IBM has you covered! Session ID: P02-8 • Track/Format: Track 4/Other Presentation Presenters: Heather Ricciuto, Academic Outreach Leader, IBM Security Description: Cybersecurity threats and technologies change so fast, it can be difficult to keep your curriculum current. Did you know that companies like IBM need to educate our clients on new technologies and you can use many of the same resources in your classroom free of charge? Join us for a tour of the wide variety of resources available including Course Materials, Open Badges, and Labs. Bonus: You'll find many of our courses are also useful for educators looking to upgrade their own skills and earn official credentials. Bring your phone, tablet laptop so you can easily save links to your favorite materials, or download them on the spot!</p>	E-305
	<p>Employers + NICE Framework + CMU SWAssurance Curriculum + Apprenticeships = Readily Employable Graduates. Do It. Session ID: P02-9 • Track/Format: Track 4/Panel Presentation Presenters: Girish Seshagiri, Executive Vice President/CTO, Ishpi Information Technologies, Inc. (Lead); Carol Woody, Technical Manager, CMU Software Engineering Institute; Rodney Petersen, Director, National Initiative for Cybersecurity Education; Marian Merritt, Lead for Industry Engagement, National Initiative for Cybersecurity Education Description: Panelists from NICE, CMU and Ishpi discuss the NICE Framework, CMU Software Assurance Curriculum and guidelines for 2-yr degrees, and how the employer-led Community Initiative Center of Excellence for Secure Software (CICESS) registered apprenticeships launched in Peoria, IL and San Antonio, TX partnered with the local community college, leveraged the NICE Framework and the CMU Standard curriculum.</p>	E-317
11:00 am - 11:55 am	<p>CONCURRENT PRESENTATIONS 3</p> <p>So you'd like to host your own CTF event but don't know where to start.... Session ID: P03-1 • Track/Format: Track 5/Other Presentation Presenters: Lionel Plaisance, Student, St. Petersburg College Description: Capture the Flag (CTF) competitions are a popular way to develop and apply cyber security knowledge and skills. Local, regional, and national competitions are offered on a regular basis. Suppose, however, that your school or club would like to host and run a CTF event of its own. Now suppose that you knew very little about hosting a CTF event but were assigned the job of making it happen. Where would you start? What platform should you use? How would you develop challenge flags and questions? What resources are available? In this session you will hear how a student, starting from ground zero, researched CTF platforms, tested, selected and implemented a platform, identified challenges and flags, and prepared his school to host its first CTF using open source resources. You will hear lessons learned and recommendations that will help you discover how you too can host a CTF even with little to no experience with these events.</p>	E-203

DAILY SCHEDULE

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MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
11:00 am - 11:55 am	CONCURRENT PRESENTATIONS 3 (cont.)	
	<p>An Evaluation of Learning and Interest in Applied Cryptography Using Two Delivery Methods Session ID: P03-2 • Track/Format: Track 2/Other Presentation Presenters: Melissa Dark, PI, Dark Enterprises Inc. (Lead); Beth Hawthorne, Professor, Union County College; Nancy Stevens Description: <i>In this session, we will share the effect of two different delivery methods for teaching applied cryptography on student learning, and student interest. We will dive into detail on what worked and what didn't for more than 700 students to include analysis by gender and level of student (e.g., high school vs. community college). This work is funded by the National Science Foundation under grant number #DGE-1548315, Amendment 001 "Catalyzing Computing and Cybersecurity in Community Colleges (C5).</i></p>	E-205
	<p>Classroom-Ready Interactive Content to Support Cybersecurity Instruction Session ID: P03-3 • Track/Format: Track 3/Software Demo Presenters: Michael Qaissaunee, Faculty/Department Chair, Brookdale Community College Description: <i>This session will share and provide a hands-on demonstration of classroom-ready interactive content developed to support courses in Networking, and Cybersecurity. This project is the result of collaboration between internal subject matter experts (SMEs) at Brookdale Community College, external SMEs from around the country and instructional designers. Topics include Addressing, The OSI Model, Public versus Private Addressing, Three-Way Handshake, SQL Injection, Spoofing Attacks, and more! Content is developed using HTML5 and therefore available for virtually any device running a modern web browser. Participants can take content with them to host online, in a learning management system (LMS) and even use offline without an Internet connection.</i></p>	E-206
	<p>Jumpstart Your Cybersecurity Curriculum with Hands-On Training Session ID: P03-4 • Track/Format: Track 3/Software Demo Presenters: Doug Rapp (Lead); Susan Green, Director, Cyberbit; Description: <i>Higher Education institutions across the world use a Cyber Range to offer innovative cybersecurity programs that produce highly skilled graduates, quickly enrolling in cybersecurity positions. A Cyber Range doubles as a training center for cybersecurity organizations, positioning it as the regional hub. It allows for community colleges to distinguish themselves and to offer cybersecurity programs for credit and non credit that allow for better student engagement with the ability to immerse in a real world SOC experience and build confidence in their abilities increasing a graduates success rate. Today, most cybersecurity professionals experience their first cyberattack while on the job. With a Cyber Range, students practice responding to the most recent cyberattacks and graduate more prepared than ever for a job in cybersecurity. Learn what we are doing for credit and non-credit offerings.</i></p>	E-213

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MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
11:00 am - 11:55 am	<p>CONCURRENT PRESENTATIONS 3 (cont.)</p> <p>Traditional cybersecurity education is not enough! Live fire, hands on training is needed. Session ID: P03-5 • Track/Format: Track 2/Other Presentation Presenters: James Craig, Dean, Business and Information Technology, Pima Community College (Lead); Will McCullen, Director, Pima Community College; Chris Bonhorst, Pima Community College Description: This session will reveal the Pima Community College academic IT Center of Excellence (COE). The discussion will describe the disruptive educational model being used, including partnering with the Arizona Cyber Warfare Range to provide hands on, "live fire" experiential learning. The COE also will include a Security Operations Center, a Student Data Center, and a Hackerspace available to the entire community. PCC will also show the new planned AAS in Cybersecurity. Participants will take away strategies and ideas they can implement in their colleges to improve student success and employability and to help strengthen the entire community's ability to fight the cybersecurity war we are all engaged in.</p>	E-215
	<p>Shaping ACM Cybersecurity Curriculum Guidelines Session ID: P03-9 • Track/Format: Track 4/Panel Presentation Presenters: Cara Tang, Faculty, Portland Community College (Lead); Cindy Tucker, Faculty, Bluegrass Community and Technical College; Christian Servin, Faculty, El Paso Community College; Markus Geissler, Faculty, Cosumnes River College; Melissa Stange, Faculty, Lord Fairfax Community College Description: In 2017 the ACM (the world's largest educational and scientific computing society), with the Joint Task Force on Cybersecurity Education, published Cybersecurity Curricula 2017 (CSEC2017), guidelines for baccalaureate programs in Cybersecurity. A presentation at 3CS 2018 gave an overview of CSEC2017. Now the ACM CCECC (Committee for Computing Education in Community Colleges) is developing curriculum guidelines for associate degree programs, based on CSEC2017. These guidelines, code-named CSEC2Y, will map to the CAE2Y knowledge units and the NICE Cybersecurity Workforce Framework. Slated for release in late 2019, a draft of CSEC2Y will be presented by a panel of the CSEC2Y task group. Participants will have an opportunity to provide feedback, helping shape the final form of the guidelines.</p>	E-317
11:30 am - 1:00 pm	<p>Food Truck FUN (tent, fans, and music!). Offering jambalaya, street tacos, pulled pork, and more! Vegan option is street tacos (bell pepper, onion, cilantro, black beans, rice, jack cheese on a white corn tortilla).</p>	Building I (Gym)

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— Ken Moak, CIS Department Chair, Tarrant County College, NE



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DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
12:00 pm - 1:55 pm	<p>CONCURRENT MINI-WORKSHOPS 2</p> <p>It Takes a Cyber Center: Developing Capabilities Through Collaboration Session ID: M2-1 • Track/Format: Track 2/Mini-Workshop Presenters: Bryan Dickens, Chief Operating Officer, Cybint Solutions (Lead); Roy Zur, CEO, Cybint Solutions Description: <i>Cyber Centers are the future of capabilities development because it is a wholistic approach to bridging the gaps between higher education, industry, and government. In this session, participants will learn about increasing student enrollment and professional development participation, solving your regions cyber skills gap through community outreach, how to become a part of a global cyber network with resources and quality education, creating a revenue channel for your institution through capability-based training solutions, and more! The mutual goal is to expand cybersecurity education and bolster the skills and capabilities of those involved to prevent, investigate, and respond to cyber threats and cybercrimes.</i></p>	G-216
	<p>Implement a Stack of Pi's for Cyber & Data Analytics Skills Development Session ID: M2-2 • Track/Format: Track 3/Mini-Workshop Presenters: Richard Becker, Faculty, Olympic College Description: <i>From concept to practical implementation, take a stack of Raspberry Pi's, virtually and then physically, to develop the skills and knowledge for Linux server administration, vulnerability scanning, penetration testing, R and Python programming, and finally data analysis of NetFlow traffic. The Pi's run Raspberian, Kali Linux, Ubuntu, with System for Internet-Level Knowledge (SiLK) software along with MongoDB and Postgresql databases. Taken together, virtually or physically, a powerful platform can be created to assist your students to acquire the needed skills for a rewarding career in CyberSecurity.</i></p>	G-218
	<p>Think that apprenticeships can't work in cybersecurity? Think again. Session ID: M2-3 • Track/Format: Track 4/Mini-Workshop Presenters: Bill Kraus, State Director, Department of Labor (Lead); Marian Merritt, Lead for Industry Engagement, National Initiative for Cybersecurity Education; Rebecca Lake, Dean Workforce and Economic Development, Harper College; Tony Marshall, President and CEO, ISG Description: <i>Across the world companies are struggling to find skilled talent. Globally, the shortage of cybersecurity professionals is nearly 3 million - (ISC)2 Cybersecurity Workforce Study, 2018. In the U.S., there are over 300K total cybersecurity job openings and a current total employed workforce of over 700K - CyberSeek, November 2018. Change is now, we must rethink education and training in innovative industries where technology out-paces traditional approaches to education and training. It is time to recognize the value of apprenticeship, a learn-and-earn model that is playing a significant role as a solution to erasing the skills-gap and diversifying the cybersecurity workforce. Participants will learn about trending apprenticeship programs and have the opportunity to tap into the presenters' expertise.</i></p>	G-325

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
12:00 pm - 12:55 pm	<p>CONCURRENT PRESENTATIONS 4</p> <p>How the Cybersecurity Workforce Gap Will Influence Your Career Session ID: P04-1 • Track/Format: Track 5/Other Presentation Presenters: John McCumber, Director, Cybersecurity Advocacy, (ISC)2 Description: <i>The (ISC)² Cybersecurity Workforce Study (formerly the Global Information Security Workforce Study) is conducted annually to assess the cybersecurity workforce gap, better understand the barriers facing the cybersecurity profession, and uncover solutions that position these talented individuals to excel in their profession, and better secure their organizations' critical assets. Awareness of the cybersecurity skills shortage has been growing worldwide. Nevertheless, that workforce gap continues to grow, putting organizations at risk despite increases in tech spending. What are the implications of this empirical study? How will the gap affect the careers of those who are new to the cybersecurity profession? What does it portend for your choice of career goals? Learn how to leverage key data points from this study in this important session from (ISC)2's own Director of Cybersecurity Advocacy. Build your career!</i></p>	E-203
	<p>Applied Digital Forensics - Finding Clues to Help Solve A Mystery or Crime Session ID: P04-2 • Track/Format: Track 2/Other Presentation Presenters: Mike Hon, Adjunct Faculty II, Noblis Description: <i>Framing digital forensics in forensic cases highlights why foundation skills in networking, programming, hardware, and cyber security topics are essential to finding evidence. Attendees will see some cases where students had to apply techniques and logical reasoning to answer questions on a semester long case that went beyond technical skills. Digital forensics is an area of cyber education that draws from multiple domains to generate end results that support investigation processes. Teaching the importance of how the policies, events, processes, and laws fit together establishes context for students to comprehend how many of the vertical domain classes should have helped them learn the skills needed for addressing modern and future based cyber activities.</i></p>	E-205
	<p>Sticker Heist - A Cybersecurity Student Challenge Session ID: P04-3 • Track/Format: Track 2/Software Demo Presenters: Mike Libassi, Associate Professor, Sinclair College Description: <i>A demonstration and explanation of a physical and cyber challenge for students developed by Professor Libassi for the Sinclair Hacking Team. This presentation and demonstration will review the inspiration, building and execution of a hands-on hacking challenge. The challenge uses Raspberry Pis, Arduino and even physical locks challenging the students to work together using pen testing skills to get to the prize... a cache of laptop stickers. Audience will come away with some inspiration and tips on creating their own challenge for their classes.</i></p>	E-206

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
12:00 pm - 12:55 pm	CONCURRENT PRESENTATIONS 4 (cont.)	
	<p>Think you know hand's-on? EC-Council introduces a new interactive lab challenge platform, CyberQ!</p> <p>Session ID: P04-4 • Track/Format: Track 3/Software Demo</p> <p>Presenters: Wesley Alvarez, Director of Academics, EC-Council</p> <p>Description: In this session EC-Council will present a new, interactive challenge lab range, CyberQ. In this range, students will be able to complete missions together and identify strengths, weaknesses, and other data to help them improve and validate their skills. Mimicking a SOC, students will work in teams to communicate and accomplish goals. Find out how to easily incorporate this range and supporting activities for your students in your classrooms, events, and competitions!</p>	E-213
	<p>From Battlefield to Cyberspace: How Veterans Can Help Fill the U.S. Cybersecurity Workforce Gap</p> <p>Session ID: P04-5 • Track/Format: Track 4/Panel Presentation</p> <p>Presenters: Heather Ricciuto, Academic Outreach Leader, IBM (Lead); C. Malachi D. Scott, Cybersecurity Program Analyst, Cybersecurity and Infrastructure Security Agency; Diane Delaney, Worldwide Talent Manager, IBM; JC Vega, Executive Security Advisor and Cyber Range Coach, IBM</p> <p>Description: Military Veterans are well positioned to transition into critically needed cybersecurity jobs. Community Colleges are a liaison for Veterans interested in pursuing cybersecurity and play an integral part in helping Veterans make the transition into civilian life. The Cybersecurity and Infrastructure Security Agency's (CISA) Cybersecurity Education & Awareness (CE&A) Branch launched an outreach program focused on arming Veterans with educational resources necessary to transition into a cybersecurity career. According to U.S. Department of Education, 43% of Military undergraduates attended 2-year public institutions in 2008. Join us to learn about the tools and resources your community college can use to assist your Veteran students on their path toward a high-paying, rewarding career in cybersecurity.</p>	E-215
	<p>SME Insight on How to Become a CAE Institution and Maintain the Designation</p> <p>Session ID: P04-6 • Track/Format: Track 4/Panel Presentation</p> <p>Presenters: Stephen Miller, Professor/Director, Eastern New Mexico University-Ruidoso Branch Community College & CyberWatch West</p> <p>Description: This presentation will cover the history and experience of ENMU-Ruidoso Branch Community College CAE/2Y and subject matter expert Point of Contact/CAE Mentor experience developing cybersecurity programs and institutional commitment needed for a successful CAE designation. Topics covered will include planning best practices, resources needed, the CAE submission team at your institution, training needed, the self-assessment, and the mentor assignment process. The detail covered in these topics include handouts and templates for planning a cybersecurity curriculum based on CAE Knowledge Units and courses already available through the CAE Community, a process model for becoming a CAE, a list of resources and criteria that enable the CAE designation process, example and recommendation on forming a team to help in the process, recommended training for the team and point of contact, overview of the self-assessment, and an overview of the Mentee/Mentor process.</p>	E-224

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
12:00 pm - 12:55 pm	<p>CONCURRENT PRESENTATIONS 4 (cont.)</p> <p>Toward a National Toolkit for Cybersecurity Education in High School: A Research Study Session ID: P04-7 • Track/Format: Track 1/Panel Presentation Presenters: Kimberly Black, Chairperson, Chicago State University (Lead); Moussa Ayyash, Director, Chicago State University; Stan Kostka, CRRC Manager, Moraine Valley Community College; Beth Coglianesi, Teacher, Shepard High School Description: This session is to present findings related to a research project funded by the National Science Foundation. The collaborators in this project are Chicago State University, Moraine Valley Community College, and two high schools from the Chicagoland area. This session covers what researchers have found based on two small-scale interventions done by cyber intelligence experts and security intelligence briefers. The purpose of the interventions is to measure the impact of carefully structured instructional activities (one day each) on students' interest in careers and educational opportunities in national security organizations. The results of this research study are part of project's team efforts to develop a national tool for best practices to teach cybersecurity and cyber intelligence at high schools.</p>	E-221
	<p>Partnerships for Information Technology Success: A Best Practices Discussion Session ID: P04-9 • Track/Format: Track 4/Panel Presentation Presenters: Crystal Dye, Assistant Professor of Information Systems Technology, Southwest Virginia Community College (Lead); James Dye, Dean, Business, Engineering & Industrial Technology, Southwest Virginia Community College; Charles Bundy, Associate Instructor of Information Systems Technology Southwest Virginia Community College Description: The session will provide a discussion of how Southwest Virginia Community College has developed a Career Study Certificate Program in Cybersecurity as well as the Associate of Applied Science Degree in Information Systems Technology with a focus on partnerships. The panel will lead the discussion with the importance of advisory boards and curriculum, community outreach, regional educational partners, student engagement and feedback, and cross-program projects.</p>	E-317

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
1:00 pm - 1:55 pm	CONCURRENT PRESENTATIONS 5	
	<p>Immersive Education: Accelerating the Availability of Cybersecurity Workers to the Workforce Session ID: P05-2 • Track/Format: Track 2/Other Presentation Presenters: Pam Schmelz, Professor/Department Chair, Ivy Tech Community College Description: <i>Ivy Tech, in partnership with the Indiana National Guard and the National Center for Complex Operations (NCCO), has put together an 11 month AAS Cybersecurity program to help meet workforce demand. The program is being hosted at the Muscatatuck Urban Training center in Butlerville, IN, which will give students access to real life situations, like a fully-outfitted smart house, a working water treatment plant, a jail, and many other features. Ivy Tech Community College has the honor of being designated as a National Centers of Academic Excellence in Cyber Defense 2-Year Education through a rigorous process supported by the Department of Homeland Security and the National Security Agency. In this session, you will learn more about how all of this came to fruition, what we are learning as the first 40-student cohort works through the curriculum, and how we will implement lessons learned and best practices for our 80-student cohort in the fall of 2019.</i></p>	E-205
	<p>Cybersecurity Learning in the Cloud Session ID: P05-3 • Track/Format: Track 2/Software Demo Presenters: Pete Maritato, Academic Chair of Engineering Science, Technology and Cybersecurity, Suffolk Community College (Lead); Stephen Clark, Director of IT, Suffolk Community College; Jonathan Sadowski, Cybersecurity Staff, Suffolk Community College Description: <i>Suffolk Community College Cybersecurity program, in collaboration with CDW and Amazon Web Services (AWS), implements a scalable, cloud hosted, virtual environment where students have 24/7 access to a multiplatform architecture to design, configure, deploy, install and run multiple copies or instances of the same or different operating systems / application suite on a single network and virtual environment utilizing Amazon AWS. The virtual environment is where students and faculty can implement and interconnect a network of virtual machines that is truly independent of colleges IT network. Advantages include the opportunity for students to gain proficiency in cybersecurity related processes on a wide variety of architectures and operating systems without the need for extensive in-house equipment. Results of students and faculty success / challenges implementing AWS for Cybersecurity curriculum along with an overview of cloud-based configuration will be presented.</i></p>	E-204

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
1:00 pm - 1:55 pm	<p>CONCURRENT PRESENTATIONS 5 (cont.)</p> <p>A Wake-Up Approach to Developing Multi-Disciplinary Cybersecurity Faculty and Research Session ID: P05-4 • Track/Format: Track 4/Other Presentation Presenters: Loyce Pailen, Director, Center for Security Studies, University of Maryland University College Description: <i>This presentation shares an effective, NSA funded approach to the problem of cybersecurity education and workforce development. University of Maryland University College's innovative program cultivates cybersecurity professors using a multidisciplinary approach. This program, the Cybersecurity Advance Degree Fellowships (CADF), successfully enhances one's professional development and grows the number of cybersecurity educators, which in turn supports the development of a diverse cybersecurity workforce. The CADF program is repeatable and scalable to support the cyber workforce. The successful process is a takeaway for academic institutions and organizations interested in providing multi-disciplinary (project management, law, finance, human resources, political science) cybersecurity education to positively impact cyber workforce needs.</i></p>	E-213
	<p>Rolling with the Tide: How to create and run an effective College Cybersecurity Club Session ID: P05-6 • Track/Format: Track 5/Other Presentation Presenters: John McGill, Cybersecurity Club Inaugural President and Co-Founder, Tidewater Community College Description: <i>The presentation will cover lessons learned from the first year of a new Cyberclub at Tidewater Community College. As Founder, I will discuss drafting a purposeful statement of purpose, working with college administrators, finding a faculty sponsor, and drafting a Charter. As President, I will discuss leadership lessons and how to organize events and meetings, invite speakers and attract sponsors. Lastly, I will discuss how to ensure that the club continues in perpetuity. Attendees should leave with a purpose of creating their own Cybersecurity clubs or with ways to increase attendance and participation through the use of Capture-The-Flag events.</i></p>	E-224
	<p>Scholarship For Service Community College Cyber Pilot (C3P) Program Session ID: P05-7 • Track/Format: Track 4/Panel Presentation Presenters: Kyle Jones, Chair/Assistant Professor, Sinclair Community College (Lead); Michael Qaissaunee, Faculty/Department Chair, Brookdale Community College; John Sands, Director, CSSIA, Moraine Valley Community College Description: <i>Scholarship For Service (SFS) is a unique program designed to recruit and train the next generation of information technology professionals, industrial control system security professionals, and security managers to meet the needs of the cybersecurity mission for Federal, State, local, and tribal governments. In 2018 a group of community colleges was identified to pilot the program. This session will cover the requirements of the pilot program and the efforts involved. It will also outline the curriculum that was selected from each institution. Each panelist will talk about how the SFS program is unique to their schools and the efforts being made to ensure this is a successful pilot.</i></p>	E-221

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
1:00 pm - 1:55 pm	CONCURRENT PRESENTATIONS 5 (cont.)	
	<p>CPTC - Building Tomorrow's Cybersecurity Experts Session ID: P05-8 • Track/Format: Track 4/Other Presentation Presenters: Bill Stackpole, Professor, Rochester Institute of Technology (Lead); Heather Ricciuto, Academic Outreach Leader, IBM Security Description: <i>The Collegiate Penetration Testing Competition (CPTC) provides a vehicle for up and coming cybersecurity student teams to build and hone the skills required to effectively discover, triage, and mitigate critical security vulnerabilities. This competition is unique in offering a simulated environment that mimics real world networks. The competition focuses on improving the security posture of a fictitious organization and reporting on risks in a manner that is similar to a real professional environment. CPTC allows college students to not only practice their offensive technical skills but also their soft skills in a fun and competitive environment that directly translated to real world situations. Students will leave this session inspired to start up new CPTC teams at their home schools.</i></p>	E-305
	<p>Higher Education Evolution: Elevating Your Programs to Achieve Desired Outcomes Session ID: P05-9 • Track/Format: Track 4/Panel Presentation Presenters: Kasey Nguyen, Professor, Computer Information Systems , Moreno Valley College (Lead); Markus Geissler, Professor, Computer Information Science, Consumnes River College; Lee Yarborough, Project Manager & Compression Planning Specialist, SynEd Description: <i>How do you ensure your project and program is effectively promoted? What defines successful educational initiatives and strategies that drive performance, lower costs, and generate value in higher education? In this informative panel session, audience members will gain valuable insights and strategies on how to promote synergies between traditional, non-traditional, and experiential learning to guide their programs efforts to realize the best possible outcomes for students, faculty, business, and the communities they serve. Questions and interactive time with panelist available to participants.</i></p>	E-317
2:00 pm - 5:00 pm	CONCURRENT WORKSHOPS 2	
	<p>Teach Real-World Cyber Skills in the Lab, at Home or On The Go Session ID: W2-1 • Track/Format: Track 2/Workshop Presenters: Dederick Scott, Instructor, Augusta Technical College Description: <i>This session will show participants how to help students gain real-world experience in cyber-related training and education without the need of physical equipment. This session will also display how students can continue honing the skills learned in the lab wherever they go. As a result, participants will not only see how to provide efficient and effective training and education, but they will also appreciate the ability to cut costs in the process.</i></p>	E-204

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
2:00 pm – 5:00 pm	CONCURRENT WORKSHOPS 2 (cont.)	
	<p>CAE2Y Application Process - Mapping and Criteria Session ID: W2-2 • Track/Format: Track 4/Workshop Presenters: Stephen Miller, Professor/Director, Eastern New Mexico University-Ruidoso Branch Community College & CyberWatch West Description: This session includes an overview of the Center of Academic Excellence - Cyber Defense Education (CAE) designation, the CAE National and Regional resource centers, and how to map courses in the CAE tool. Participants will learn how to map courses to the CAE knowledge units and how to address the criteria in the application.</p>	E-214
	<p>Cybersecurity Program Enables Faculty to Protect Life in the Digital Age Session ID: W2-4 • Track/Format: Track 4/Workshop Presenters: Thomas Trevethan, Curriculum Lead, Palo Alto Networks (Lead) Description: Palo Alto Networks is spearheading the effort to restore faith in the digital age by taking strategic action to bridge the cybersecurity skills gap. The Cybersecurity Academy creates partnerships with qualified colleges to provide next-generation security technology, course materials, certification, and training labs to be implemented as part of their academic cybersecurity curriculum. The program is designed to equip students with the cybersecurity skills and knowledge based on NICE work roles required to succeed in today's rapidly evolving threat landscape. This session will prepare faculty to teach the Cybersecurity Foundation, Gateway, and Essentials courses offered through participating in the Palo Alto Networks Cybersecurity Academy program. The session will include a review of content and hands-on labs that can be used for classroom instruction. Further, this course initially prepares faculty to become a Certified Cybersecurity Associate (PCCSA) available through PearsonVue.</p>	E-226
<p>Teaching IIOT (ICS) in Your Existing Classrooms Using Raspberry Pi Session ID: W2-5 • Track/Format: Track 3/Workshop Presenters: Michael Masino, CyberSecurity Program Director, Madison College (Lead); John Sands, Director, CSSIA, Moraine Valley Community College Description: The session will utilize a lab manual developed by CybatiWorks to teach the basics of security for industrial ICS/IIOT applications. The student will use Kali Linux and the custom Cybati Raspberry Pi hardware and VM setup to learn about surveying your attack surface, physical-cyber-operational assessments, and penetration tests. Security tools include NMap, Metasploit, and some custom IIOT security scripts and tools.</p>	E-303	

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
2:00 pm – 2:55 pm	CONCURRENT PRESENTATIONS 6	
	<p>Industrial Control Systems (ICS) - Protecting Vital Infrastructure Session ID: P06-1 • Track/Format: Track 2/Other Presentation Presenters: Charles Brooks, Vice President, Educational Technologies Group, Inc. Description: <i>Topics include:</i></p> <ul style="list-style-type: none"> • What are Industrial Control Systems (ICS) and where are they utilized. • What is the Cyber threat to ICS. • Why it is of critical importance to protect ICS. • What devices are available (both Hardware and Software) to protect ICS. • How do you teach students in a hands-on environment the skills required to work in this important Cyber Security sector. • What Industry Certifications in Cyber Security are relevant and in-demand in the ICS sector. 	E-203
	<p>Find the Next Cybersecurity Student in a Haystack! Session ID: P06-2 • Track/Format: Track 5/Other Presentation Presenters: Nelbert “Doc” St.Clair, Middle Georgia State University (Lead); Jonathan Yerby, Assistant Professor, Middle Georgia State University Description: <i>It's hard to find a needle in a haystack, but I have found one. Sit back and hear my journey to find a cybersecurity student (needle) in a university (haystack). I discovered Jacob Corley, the current leader of the "CyberKnights" student club at MGA. Did you know that Middle Georgia State University (MGA) has placed six students in the top 10% in the National Cyber League (NCL) for the past three semesters? If you entered the NCL competition or served as a coach, you might have seen username@MGA. I am not bragging! I am proud of the students hard work and want to share the MGA journey. We will also demo the CTF platform that is hosted by Dakota State University (DSU) and talk about the partnership which lead MGA to hosting two internal CTF competitions for over 500 students. We will discuss our lessons learned and how this has impacted our students and faculty.</i></p>	G-218
	<p>Smarter NOT Harder: Teaching Cybersecurity Using “Hands-on” Cloud-Based Resources Session ID: P06-3 • Track/Format: Track 2/Software Demo Presenters: Sandra Schiavo, Lead Courseware Coordinator, Virginia Cyber Range (Lead); Bathurst Bagby, Assistant Professor, Virginia Western Community College Description: <i>It's a proven fact that using a hands-on learning approach, especially in cybersecurity, helps students to retain what they've learned, stimulates their interest in learning more, and may even increase their chances of getting hired since they are familiar with and using the tools they'd use in the cybersecurity workplace. In this session, you will learn about and see a live demo of the free cloud-based resources many community colleges (and even universities and K12) are using in Virginia to teach cybersecurity.</i></p>	E-206

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
2:00 pm - 2:55 pm	CONCURRENT PRESENTATIONS 6 (cont.)	
	<p>National CyberWatch Center Cybersecurity Curricula: A Complete Solution Session ID: P06-4 • Track/Format: Track 4/Other Presentation Presenters: Casey O'Brien, Executive Director/PI, National CyberWatch Center Description: In this hands-on demonstration, Casey W. O'Brien, Executive Director and Principal Investigator of the National CyberWatch Center, will highlight the Center's curricular resources to include: design considerations, Curriculum Standards Panels, e-Books, cloud-based lab solution, degree and certificate programs, technical courses, mapping efforts to various frameworks, and curricular consulting services. Participants will receive a hard copy of the recently updated National CyberWatch's Information Security Curricula Guide: A Complete Solution for Higher Education Institutions.</p>	E-213
	<p>Preparing Your CyberSecurity Program for Student Success Session ID: P06-5 • Track/Format: Track 4/Other Presentation Presenters: Kirk Smallwood, VP, US Academic Business Development, CompTIA Description: The role of industry-recognized certifications in preparing students for cyber security jobs is more important than ever. Learn how to maximize your program to help your students truly be job-ready. In addition, learn about a number of free resources that you and your students can utilize.</p>	E-215
	<p>Integrate Mobile Forensics into Cybersecurity Courses Session ID: P06-7 • Track/Format: Track 3/Panel Presentation Presenters: Edwina Jacobs Description: With the rapid growth of mobile devices, it is becoming increasingly common for law enforcement to need to seize and conduct forensic analysis on such devices. Due the increasing concern about privacy and the vast amount of information stored on smartphones, it is increasingly challenging to due effective acquisition and analysis on such devices. This is very important for law enforcement agency only search for data relevant to the crime. The goal of this session is to discuss a methodology and supporting software tools to effectively acquire and do an initial analysis on smartphones (Android and iPhone) under the following scenario: at a crime scene or subsequent to a crime, victims and witnesses consent to assist law enforcement by allowing analysis of their smart phones. Law enforcement also efficiency indicate that their goal is to only search for data relevant to this crime.</p>	E-221
	<p>How to Build a Successful 3+1 Program Between Developing CAE Partners Session ID: P06-9 • Track/Format: Track 4/Panel Presentation Presenters: Todd Whittaker, Department Chairman, Franklin University (Lead); Lawrence McWherter, Instructor, Columbus State Community College Description: Columbus State Community College and Franklin University have been partners in building articulare curriculum for many years. Both institutions wanted to pursue the NSA CAE in Cyber Defense (CAE/CD) status and still maintain a highly transferable cyber curriculum to minimize credit loss. This session will discuss our successful collaboration over the past four years of an NSF grant that yielded a 3+1 agreement with maximum student benefit. Topics will include goals and motivations, partner selection, institutional support, joint curriculum development, integrated advisory boards, managing evolving curriculum and more!</p>	E-317

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
3:00 pm - 4:00 pm	Ice Cream Social / Networking Event - Student Union, 2nd Floor From SweetPort Ice Cream in the Student Union (municipal auditoriYUM vanilla, strawberry at the strand, and hearts island road crunch praline)	Building F
3:00 pm - 4:00 pm	Birds of a Feather Roundtables - Student Union, 1st Floor Join your colleagues to discuss the cybersecurity education issues this community has raised, share your insights, and listen and learn.	Building F
3:00 pm - 5:00 pm	CONCURRENT MINI-WORKSHOP 3	
	Transform the Classroom into a Virtual Internship with Cases, Job Roles, Mentors and KSA Acquisition Session ID: M3-1 • Track/Format: Track 2/Mini-Workshop Presenters: Edward Moskal, Director, Cybersecurity, Saint Peters University Description: <i>The goal of this session is to provide attendees with a demo of the iQ4 platform which contains course content and case studies that could be used as a semester long course / integrated into an existing course to accelerate training, improve skill-sets, and embed real world experience in the classroom to accelerate students into the cybersecurity workforce. Students become "cyber interns" and work in teams with faculty and industry SMEs as mentors. Content for the course covers core competencies e.g., knowledge, skills, and abilities relating to the identification, detection, protection against, response to, and recovery from an insider threat including how to build and maintain communication with executives, peers and regulators. In addition, essential skills (e.g., teamwork and communications skills), which are required in the workforce. Participants will take away a methodology, the mechanics / understanding of how the platform works for implementing a virtual internship course.</i>	G-216
	Mobile Device Forensics Session ID: M3-2 • Track/Format: Track 3/Mini-Workshop Presenters: Shalon Simmons, Adjunct Professor, Oklahoma State Uni. Tulsa Description: <i>Mobile devices are prevalent in every aspect of society. As a result Digital Forensics classes must go beyond the traditional laptop and/or desktop computer. Today the Internet of Things have created new mobile devices which may contain critical data. There have been criminal cases solved through smart watches, intelligent personal assistants (e.g. alexa, echo, etc) as well as traditional mobile phones. Today's Digital Forensics class must include these new technologies. This workshop will include several free and/or almost free forensics tools that can be used on these mobile devices. In addition we will discuss evidence preservation, techniques for extraction as well as other issues associated with Mobile Device Forensics that can be added to curriculum.</i>	G-218
	Intro to IBM QRadar Session ID: M3-3 • Track/Format: Track 2/Mini-Workshop Presenters: Moazzam Khan, Security Researcher, IBM Security Description: <i>Learn how you can incorporate IBM QRadar into your cybersecurity curriculum and give your students the hands-on security intelligence skills industry is looking for.</i>	G-325

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
3:00 pm - 3:55 pm	CONCURRENT PRESENTATIONS 7	
	<p>Success in Online Classroom Session ID: P07-1 • Track/Format: Track 2/Other Presentation Presenters: Charline Nixon, Dean, EC-Council University Description: <i>Online classroom experience is different than traditional face-to-face students. This presentation is about how you can assess your online students, review research regarding effective online assessments and overcoming stress from students who don't participate in regular online environment. Share best practices for online students and online faculty.</i></p>	E-203
	<p>DevSecOps = DevOps + Secure Coding Session ID: P07-2 • Track/Format: Track 2/Other Presentation Presenters: Rajiv Malkan, Professor, LoneStar College - Montgomery Description: <i>DevOps is a software development methodology that combines development life cycle with IT operations. Idea is to develop faster and quicker updates using Agile and Lean approaches towards Software Development Life Cycle (SDLC). This process still does not solve the issue of software vulnerabilities. By integrating security development mindset from the beginning of the SDLC - DevSecOps process goal is to develop secure system design and reduce the risk of software vulnerabilities. So how do we incorporate such tools in the classroom. This presentation is based on best practices on how basic secure coding concepts and agile software development are included in the curriculum.</i></p>	E-205
<p>Wearable Medical Devices Vulnerabilities Exploited: The case of Heart Monitor Session ID: P07-3 • Track/Format: Track 3/Other Presentation Presenters: George Meghabghab, Director of the Cyber Security Program, Roane State Community College Description: <i>Wearable medical devices are helping patients at many levels. Participants will see a live session on a wearable heart rate monitor. The heart monitor is connected to a participant and the heart rate is stored into a database. Bluetooth packet sniffing will be used to obtain the data stored, analyzed and parsed. Wifi traffic is captured and analyzed. Once the ethernet tap is placed, login credentials are captured including TCP/IP packets. From inside Kali, Sparta is launched and participants will be able to see first-hand datalogger vulnerabilities, database login page vulnerabilities, router vulnerabilities and creating a full report on risk assessment. The NIST framework will be applied to shape such a report. The highlight of such a report will include not only a risk assessment but also a risk management report including access control involving the data logger, router access control, database access control. Wearable devices pose a risk that cannot be ignored.</i></p>	E-206	

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
3:00 pm - 3:55 pm	CONCURRENT PRESENTATIONS 7 (cont.)	
	<p>Building Cybersecurity Competency through Experiential Learning, Guided Pathways and Certifications Session ID: P07-4 • Track/Format: Track 4/Other Presentation Presenters: Deanne Wesley, Associate Dean Davis iTEC Cybersecurity Center, Forsyth Technical Community College (Lead); Lawrence McWherter, Coordinator and Instructor, Columbus State Community College Description: Presenters will discuss partnerships two K-12 schools and industry partners to provided experiential learning opportunities to build competency in cybersecurity skills. Presenters will discuss the guided pathways used to build enrollment in cyber programs and demonstrate integration of nice job role to one CompTIA certification.</p>	E-213
	<p>How Does Having a Cyber Club Help Increase a Cybersecurity Programs Enrollment Session ID: P07-5 • Track/Format: Track 4/Other Presentation Presenters: Martin Bencic, Occupational Program Director, Glendal Community College Description: In this session you will learn how Glendale Community College used students participation in a cyber club helped to grow its program and gain support from its administration. See how GCC's cyber club grew from 6 donated computers to over \$100k Gaucho Cyber Cave.</p>	E-215
	<p>The Rise of a New Career - Cybersecurity Insurance Adjuster Session ID: P07-6 • Track/Format: Track 5/Other Presentation Presenters: Penn Wu, Professor, Cypress College Description: Nationwide insurance companies have begun selling insurance policies for security and resources for cyber risks. These insurance companies need adjusters with strong background in cybersecurity to (1) assess clients' readiness to withstand and recover from a cyber-attack and (2) evaluate the damages caused by data breaches, computer hacking, cyber threats, employee error, and more. This demand opens a new career opportunity to students of cybersecurity. This presentation will: (1) provide a job overlook of a new occupation called "cybersecurity insurance adjuster", (2) compare some sample cybersecurity insurance policies, (3) describe the generic job description and duties, (4) differentiate this new occupation with existing auto-, home-, and healthcare insurance adjustors, (5) offer a knowledge and skill mapping between currently available cybersecurity education and the demanded skillsets, and (6) discuss the career opportunities for students of cybersecurity majors.</p>	E-224

DAILY SCHEDULE

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
3:00 pm - 3:55 pm	<p>CONCURRENT PRESENTATIONS 7 (cont.)</p> <p>Securing the Business: A Data Resource Focused Concentration in Security Session ID: P07-7 • Track/Format: Track 4/Panel Presentation Presenters: William Barnett, Program Coordinator, University of Louisiana at Monroe Description: <i>The Information Security Concentration to the Computer Information Systems degree at the University of Louisiana at Monroe is designed around a focus on securing the organizational data resource. The program applies a life cycle approach to information security with an emphasis on risk assessment, design and implementation of a wide spectrum of security controls, and finally assessment and controls auditing. The content of the concentration is cross-disciplinary, drawing on courses from the Accounting, Risk Management, and Information Systems programs to provide students with a sufficiently deep understanding of the processes and technical skills needed support a comprehensive organizational security posture. This session will cover the life cycle based approach used to design the program structure, the program content, and the issues related to integrating non-technical disciplines into information security education.</i></p>	E-221
	<p>Federal Panel - Support for Cybersecurity Education and Workforce Development Session ID: P07-9 • Track/Format: Track 4/Panel Presentation Presenters: Vera Zdravkovich, Senior Advisor, National CyberWatch Center (Lead); Corby Hovis, Program Officer, National Science Foundation; Lorie Pfannenstein, Program Director, National Security Agency; Dan Stein, Branch Chief, Cybersecurity Education and Awareness, Department of Homeland Security; Rodney Petersen, Director, National Initiative for Cybersecurity Education Description: <i>Participants will hear and learn from representatives of the National Science Foundation, National Security Agency, Department of Homeland Security, and National Initiative for Cybersecurity Education about the programs, activities, and funding opportunities that support cybersecurity education. Time will be allowed for participants to seek information and answers to their questions.</i></p>	E-317
4:00 pm - 5:00 pm	<p>CONCURRENT PRESENTATIONS 8</p> <p>Cyber Up Your Cyber Game! Infuse Cyber Comps, Certs, & Industry Networks into Your Curriculum Session ID: P08-1 • Track/Format: Track 2/Other Presentation Presenters: Donna Woods, Instructor, Moreno Valley College (Lead); Kasey Nguyen, Professor, Computer Information Systems Moreno Valley College Description: <i>Instructors looking for way to infuse life into the cyber programs, without draining life from themselves - will find great tools at this workshop. Change is Now! Discover unique strategies for incorporating industry curriculum and certification for FREE! explore successful models of K-14 cyber pathways offering cyber camps, cyber competition, coaches training, professional development, and digital badges without imposing extra time on CC faculty. Impossible?! Not at all. Come see how you fit into this amazing collaborative network of professionals from K-12, CC, and Industry who are changing the cyber sphere.</i></p>	E-203

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AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
4:00 pm - 5:00 pm	<p>CONCURRENT PRESENTATIONS 8 (cont.)</p> <p>Stop Issuing Secure Credentials to Imposters Session ID: P08-2 • Track/Format: Track 2/Other Presentation Presenters: Ronald Martin, Adjunct Professor, Capitol Technology University Description: Much has been said about the difficulties in screening persons for possible imposter fraud or security concerns based upon use of current identity documents like birth certificates, driver's licenses or passports. The most often reasons given are the lack of standardization of security features and the layout for these documents. This criticism is focused on the inability of even a trained person to recognize valid documents and the specific parameters for each of these documents. The focus of this session is on the value of machine screening of the identity documents in circulation and the requirement for a standardized metric for adjudication of the identity assurance process. The distinction is between human screening and the power of machine processing. The diversity of the identity documents and the issuer's attempts to exert their own unique identity for their documents is actually a benefit to machine screening.</p>	E-205
	<p>SF Bay Region K14 Cybersecurity Pathways, Competitions, and Summer CyberCamps (v2.0) Session ID: P08-3 • Track/Format: Track 3/Other Presentation Presenters: Richard Grotegut, SF Bay Region Deputy Sector Navigator (DSN) for ICT, Consultant Description: Come and learn how the SF Bay Region's 28 Community Colleges have banded together to support our K12 partners participation in cybersecurity pathways. Over the past three years (2016/2018) are summer camps have expanded from: two camps (one at a local college and one at a high school) in our pilot year, 2016, with 100 students; 12 camps at 12 colleges with nearly 600 students; to 30 camps at 20 colleges last summer, supporting 1200 middle and high school students. You will also learn how we have built on the success and best practices of the summer BACCC CyberCamps by: (1) Increasing enrollment in participating college's IT/Cybersecurity courses. (2) Growing participation in collegiate competitions. (3) Expanding participation in year-long K-12 Cybersecurity Competitions.</p>	E-206
	<p>Build It, and They Will Come: Learn how IBM volunteers built #IBMCyberDay4Girls Session ID: P08-4 • Track/Format: Track 4/Other Presentation Presenters: Heather Ricciuto, Academic Outreach Leader, IBM Security (Lead); Michelle Rivers, Project Manager, IBM Security Description: How can we build a diverse workforce when two-thirds of young students aren't even aware of cybersecurity careers? One answer: Youth Outreach. Learn how IBM volunteers created #IBMCyberDay4Girls, a program that promotes cybersecurity awareness among middle-school girls. Educators & students alike will leave this session equipped to engage with IBM volunteers to deliver IBMCyberDay4Girls in its entirety, or may be inspired to create a program of their own using IBM Volunteer activity kits.</p>	E-213

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
4:00 pm - 5:00 pm	CONCURRENT PRESENTATIONS 8 (cont.)	
	<p>The Perceived Impact of Barriers to Retention on Women in Cybersecurity Session ID: P08-6 • Track/Format: Track 5/Other Presentation Presenters: Carl Willis-Ford, Solutions Architect, General Dynamics Information Technology Description: <i>This session presents the results from my dissertation research on retention of women in the cybersecurity industry. The cybersecurity industry has a gender gap, with women making up only 10-15% of the United States cybersecurity workforce while making up about 50% of the general workforce. One of the reasons for the disparity is the low retention rate of women in cybersecurity. Results presented will help women entering the industry (as well as companies that are hiring women into cybersecurity) be aware of how factors can impact their desire to stay in cybersecurity and how to recognize and manage them.</i></p>	E-224
	<p>ABET Accreditation of 2-Year Cybersecurity Programs Session ID: P08-7 • Track/Format: Track 4/Panel Presentation Presenters: David Gibson, Professor, Air Force Academy (Retired) (Lead); Larry Jones, ABET Past President, Mississippi State University Description: <i>After two years of community outreach, ABET is developing accreditation criteria for 2-year cybersecurity (2YCY) programs and plans to conduct initial (pilot) accreditation visits in 2020. This session will provide an update on the initiative, explain the currently proposed 2YCY accreditation criteria, and discuss potential benefits and challenges of 2YCY program accreditation. The session will include discussions of what is involved in an ABET accreditation visit and how ABET accreditation differs from CAE-2Y designation. This will be an interactive session seeking questions and perspectives from all participants.</i></p>	E-221
	<p>The Pentester Blueprint: A Guide to Becoming an Ethical Hacker Session ID: P08-8 • Track/Format: Track 5/Other Presentation Presenters: Phillip Wylie, Adjunct Instructor, Richland College Description: <i>Pentesting or ethical hacking as it is more commonly known has become a much sought-after job by people in IT, InfoSec, or those just trying to get into the industry. In this presentation Phillip Wylie shares the blueprint for becoming a pentester. The presentation combines Phillip's experience as a pentester and ethical hacking instructor to give attendees a guide to how to pursue a career as a pentester. Phillip shares what has worked for his students and people that he has mentored over his years as a pentester. This presentation covers the knowledge and skills needed to become a pentester as well as the steps to achieve them.</i></p>	E-305

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JULY 31

AFTERNOON CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
4:00 pm - 5:00 pm	<p>CONCURRENT PRESENTATIONS 8 (cont.)</p> <p>Evolution of a Cyber Program: From Facilities to the Accreditation Process Session ID: P08-9 • Track/Format: Track 4/Panel Presentation Presenters: Denise Dragos, Faculty Instructor, Saint John's University (Lead); Suzanna Schmeelk, Assistant Professor, St. John's University Description: <i>St. John's University prides itself on being a diverse metropolitan and global university with a dedication to service and a clear vision of innovative teaching research and service that will engage the students and provide them with the necessary skills to succeed after graduation. It's a professional curriculum built upon a liberal arts core and designed to provide both a comprehensive education leading to a career in cyber security and digital forensics while providing a foundation for further study at the graduate level. This year the faculty has been working to integrate course work and update the cyber security curriculum to make best use of the University's multi-million dollar investment building out a state-of-the-art Cyber Security, Homeland Security, and Computer Science Lab. The panel will discuss the experience and growing pains, including managing stakeholder expectations. The panel will also discuss the progress being made to obtain both ABET and NSA CAE accreditation.</i></p>	E-317
5:15 pm	Bus transportation from BPCCC to Hotel	
6:00 pm	Dinner on Your Own	
7:00 pm	<p>"Suzie Q" on the Red River: A walking tour of Shreveport history (\$10). Description: <i>Robert Trudeau offers an animated, enthusiastic but fact-based perspective on Shreveport's story via its music, food, and southernness. Trudeau chronicles the African-American struggle and Shreveport's place in Louisiana history. Take a Lyft/Uber or do the 15-minute trek to start the tour! The address is 450 Clyde Fant Pkwy (just across the bridge). This unique walking tour is \$10 per person (or a donation) due when the tour starts.</i></p>	

STEM EDA

COMPUTATIONAL THINKING

STEAM FUNDAMENTALS

CYBER FUNDAMENTALS

ALGEBRA 1

CYBER LITERACY

CYBER SOCIETY

CYBER LITERACY 2

A+ CERTIFICATION PREP

CYBERSECURITY FUNDAMENTALS

CRYPTO MATH

ADVANCED MATH

CYBER SCIENCE

PHYSICS

COMPUTER SCIENCE

INDUSTRY-BASED CERTIFICATIONS

CYBER DEGREES

CYBER CAREERS

BUILDING A K-12 PIPELINE TO THE CYBERSECURITY WORKFORCE

palto NETWORKS

CYBERSECURITY ACADEMY

PROTECTING OUR WAY OF LIFE IN THE DIGITAL AGE ONE STUDENT AT A TIME

PROGRAM OVERVIEW

Palo Alto Networks Cybersecurity Academy provides degree-granting, accredited academic institutions (secondary and higher education) with courseware, virtual firewalls, hands-on labs and faculty training at no cost. This equips students with the next-generation cybersecurity knowledge and skills they'll need to succeed in today's rapidly changing cyberthreat landscape. Since the program launched, it has grown to have more than 500 partner institutions in more than 55 countries worldwide.

JOIN THE ACADEMY

To start incorporating the most advanced network security and cyber-threat prevention technology into your cybersecurity curriculum, simply sign and return our Cybersecurity Academy Agreement which can be found at www.paloaltonetworks.com/academy.

FURTHER QUESTIONS

For any questions about Palo Alto Networks Cybersecurity Academy, email the Academy team at academy@paloaltonetworks.com.

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 1

2019 COMMUNITY COLLEGE CYBER SUMMIT (3CS) - DAY 3

TIME	DESCRIPTION	LOCATION
7:30 am - 8:00 am	Breakfast at Hotel	
8:15 am	Bus transportation from Hotel to BPCC	
9:00 am - Noon	3CS Information Desk at BPCC	
9:00 am - 9:55 am	CLOSING PLENARY BPCC Theatre - Building C	
	<p>Keynote Address: Marci McCarthy, CEO and President of T.E.N.</p> <ul style="list-style-type: none"> • Marci McCarthy is the CEO and President of T.E.N., an information security executive networking and relationship-marketing firm. With more than 20 years of business management and entrepreneurial experience, McCarthy founded T.E.N.'s flagship program, the Information Security Executive® of the Year (ISE®) Program Series, which is lauded by the IT industry as the premier recognition and networking program for security professionals in the U.S. and Canada. (To view full bio, please use the 3CS EduPlus Mobile App.) 	
		
10:00 am - 11:00 am	Snacks and Networking	Building F
10:00 am - 12:00 pm	3CS Showcase (Exhibits by Academic, Commercial and Federal Partners)	Building F
10:00 am - 12:00 pm	CONCURRENT MINI-WORKSHOPS 4	
	<p>How to Incorporate the Cloud in Your Cybersecurity Class Session ID: M4-1 • Track/Format: Track 2/Mini-Workshop Presenters: Hatim Hussein, Associate Professor, Northern Virginia Community College Description: This proposal gives hands-on activity on how to incorporate the AWS cloud services into your Cyber Security class. This activity will incorporate Windows Server 2016 into one of my Cyber Security classes.</p>	G-216
	<p>NSA/DHS National CAE Cyber Defense KU Mapping Session ID: M4-2 • Track/Format: Track 4/Mini-Workshop Presenters: Karen Leuschner, Program Director, National Security Agency (Lead); Lorie Pfannenstien, Centers of Academic Excellence in cyber Defense - NSA Program Office, National Security Agency Description: The Centers of Academic Excellence NSA program office will be presenting invaluable information on how to map your institution's curriculum to the re-aligned 2019 CAE Knowledge Units (KU). Whether you are from a re-designating school or just getting started, this is the session for you! This session will focus on the mechanics of mapping cyber related course material to the KUs. CAE schools re-designating in the next two years should attend this workshop to learn about re-alignment of the KU structure. Pitfalls to avoid - do's and don'ts for mapping your courses.</p>	G-218

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 1

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
10:00 am - 10:55 am	<p>CONCURRENT PRESENTATIONS 9 (cont.)</p> <p>Operationalize the Student Experience by Incorporating Security Operations into Your Curriculum Session ID: P09-3 • Track/Format: Track 3/Other Presentation Presenters: Bill Butler, Chair Cybersecurity, Capitol Technology University Description: <i>This session will describe how to incorporate cyber operations (SOC) into your curriculum to produce graduates through experiential learning. The benefits of such an approach include students gaining real experience in areas such log analysis, incident handling, malware analysis, and more importantly situational awareness. Experiential learning will build graduates possessing more technical and leadership advanced skills based on these experiences. These SOC experiences are not designed to replace the static classroom approach that dominates cybersecurity education today but reinforce. Today employers demand job ready graduates with meaningful college experiences. Students require better preparation to be successful in the dynamic threat filled workplace they will enter. Faculty are seeking a more practical approach to preparing students for a select group of NICE defined specialties which require a high degree of situational awareness.</i></p>	E-206
	<p>Ready Player 0x01: How Gamified Ecosystems Will Save Us All Session ID: P09-4 • Track/Format: Track 4/Other Presentation Presenters: Evan Dornbush, CEO & Co-Founder, Point3 Security Inc. Description: <i>Gamified ecosystems pose many benefits to professional organizations, specifically in the areas of recruiting, retention, and assessment, and in talent identification and cultivation. This talk reviews several academic papers studying the effectiveness of gaming's role in modern workforce development. It describes how gamified ecosystems apply to cybersecurity workforce development issues. It also covers several options on how attendees can start their own gamified programs and get involved. By the end of this presentation, attendees will be aware of several gamified solutions in use throughout corporate and government organizations today. Attendees will be exposed to some of the scientific community's findings on the effectiveness of gaming as it applies to the human brain, and in particular to the cybersecurity community. Attendees will have tangible steps they can take to create a gamified solution for their specific work environment.</i></p>	E-213
	<p>CAE Mentor & Reviewer Tips on How to Prepare Your Community College to Qualify for CAE2Y Status Session ID: P09-5 • Track/Format: Track 4/Other Presentation Presenters: Stephen Miller, Professor/Director, Eastern New Mexico University-Ruidoso Branch Community College & CyberWatch West Description: <i>The purpose of this presentation is to share best practices, processes and experience for a community college seeking a CAE designation from a seasoned CAE Mentor (Mentored over 12 community colleges and universities), and Reviewer perspective. Topics cover the CAE process and experience as a point of contact (POC) for a CAE Associate/CDE (Eastern New Mexico University-Ruidoso Branch Community College), recently re-designated as a CAE Associate/CDE (CAE2Y/CD since 2014). Presentation will cover the CAE process including Knowledge Unit requirements, criteria, and best practices for developing a CAE Associate CDE curriculum.</i></p>	E-215

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 1

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
10:00 am - 10:55 am	CONCURRENT PRESENTATIONS 9 (cont.)	
	<p>Building a Collaborative STEM Club with High school and College Students Session ID: P09-6 • Track/Format: Track 5/Other Presentation Presenters: Renee Himmelspsach, Stokes County High School (Lead); Amanda Campbell, Teacher, Stokes County High School; Samuel Wilson Description: Presenters will discuss the curriculum model used to build a Coding/ Cybersecurity Club for High School students to teach students to program Raspberry PI's. Presenters will discuss the collaboration with ForsythTech Cyber Geeks club members to assist student with program raspberry pi to build programming skills and cyber competency. A short demonstration will be provided to participants. Participants will be able to model this activity at there perspective institutions.</p>	E-224
	<p>ABET Accreditation of 2-Year Cybersecurity Programs Session ID: P09-7 • Track/Format: Track 4/Panel Presentation Presenters: David Gibson, Professor, Air Force Academy (Retired)(Lead); Larry Jones, ABET Past President, Mississippi State University Description: After two years of community outreach, ABET is developing accreditation criteria for 2-year cybersecurity (2YCY) programs and plans to conduct initial (pilot) accreditation visits in 2020. This session will provide an update on the initiative, explain the currently proposed 2YCY accreditation criteria, and discuss potential benefits and challenges of 2YCY program accreditation. The session will include discussions of what is involved in an ABET accreditation visit and how ABET accreditation differs from CAE-2Y designation. This will be an interactive session seeking questions and perspectives from all participants.</p>	E-221
	<p>New Materials Available for your Cybersecurity Program Session ID: P09-8 • Track/Format: Track 4/Other Presentation Presenters: John Sands, Director, CSSIA, Moraine Valley Community College Description: Over the last 10 years, the cybersecurity program has matured and evolved into numerous areas of specialization. At this time, it is critical that community college cybersecurity programs reflect and implement instructional materials that prepare students for the new specializations. The NIST/NICE framework identifies seven categories of work, 32 specialty areas and 52 work roles. This session will address one of the fastest growing sectors of the cybersecurity profession. The sector is commonly referred to as Governance, Risk Management and Compliance. This session will review existing standards and regulations, the regulating bodies and compliance frameworks that institutions should include in their instructional materials.</p>	E-305

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 1

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
10:00 am - 10:55 am	<p>CONCURRENT PRESENTATIONS 9 (cont.)</p> <p>Empowering Parents with Technology to Mitigate Cyberbullying Session ID: P09-9 • Track/Format: Track 5/Software Demo Presenters: John Watkins, Assistant Professor/Cybersecurity Curriculum Chair, Westchester Community College (Lead); Joseph Tolve, Student, Westchester Community College Description: Students at Westchester Community College are encouraged to assist and help the community with presentations and workshops. These events are not only helpful for the local community but are also an excellent method for students to enhance their skills by researching, implementing and helping others. The latest project involves teaching parents how to utilize technology in the quest of mitigating Cyberbullying. Participants will learn what software applications we are using, their approach and receive an opportunity to join the cause.</p>	E-317
11:00 am - 11:55 pm	<p>CONCURRENT PRESENTATIONS 10</p> <p>Building Workforce Competence with the Nice Challenge... a Capstone Pilot Session ID: P10-1 • Track/Format: Track 2/Other Presentation Presenters: LaMonica Stone, Faculty, Forsyth Technical Community College (Lead); Deanne Wesley, Associate Chair, Forsyth Technical Community College Description: Presenter will give an overview of the redesigned capstone class utilizing the Nice Challenge as the formal project and utilizing innovative technique to bridge specific competencies that industry in the region outline as important to an competent workforce. Participants will learn how to bridge these competencies in any technology/cybersecurity course.</p>	E-203
	<p>Establishing Effective Cybersecurity Career Pathways Session ID: P10-2 • Track/Format: Track 1/Panel Presentation Presenters: John Sands, Director, CSSIA, Moraine Valley Community College (Lead); Wayne Pauli, North Central CRRC Director, Dakota State University; Jake Mihevc, Mohawk Valley Comm College; Nancy Jones, Dean of CTE, Coastline Comm College Description: This session will provide an overview of the research performed by 4 institutions studying the creation of cybersecurity career pathways. These institutions include Coastline, Dakota State University, Mohawk Valley and Moraine Valley. Career pathways are eco system developed by education systems to provide students with an early start to potential career. Career pathways also provide students to complete an academic program in a compressed timeframe. The career pathway framework was developed in 1996 by the Department of Education before the cybersecurity profession existed. These institutions received grant funding to study current cybersecurity pathways and career clusters and document best practices. The grant also explored common elements and differences between CTE-K12 pathway programs. This study was also used to identify challenges, obstacles and potential investments to improve career pathways within each of the different states studied.</p>	E-205

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 1

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
11:00 am - 11:55 pm	CONCURRENT PRESENTATIONS 10 (cont.)	
	<p>Engaging 21st Century Students Session ID: P10-3 • Track/Format: Track 2/Other Presentation Presenters: Patrick Ward, Professor, Chattanooga State Community College Description: Will teach faculty what interests 21st century students and how to keep the students engaged by actively involving their participation in various research projects and open problems. Will present various case studies and show how one can use Kali Linux tools to demonstrate various penetration testing techniques involving the phases of the Cyber Kill Chain: reconnaissance, weaponization, delivery, exploitation, installation, command & control, and actions on objectives. Will also focus on the reconnaissance phase of penetration testing involving internet search engine queries, social engineering, domain name management and search services, non-intrusive and intrusive network scanning, fingerprinting, footprinting, vulnerability scanning, enumeration, web application static and dynamic analysis showing faculty how to use tools to effectively demonstrate and actively engage students in these activities.</p>	E-206
	<p>The California Cybersecurity Apprenticeship Project at Coastline College Session ID: P10-5 • Track/Format: Track 4/Other Presentation Presenters: Tobi West, CIS/CST Department Chair, Coastline College (Lead); Nancy Jones, Dean of CTE, Coastline College Description: The California Cybersecurity Apprenticeship Project provides students with tuition waivers, textbooks, and certification exam vouchers to prepare apprentices for the cybersecurity workforce. Apprentices will prepare for cybersecurity careers through exam-prep and career-readiness workshops, and mentoring while taking Coastline College courses aligned with an A.S. in Cybersecurity. Goals include 50 apprentices completing 2,000 hours performing cybersecurity tasks, industry-recognized certifications, and an ongoing passion for cybersecurity. Discussion will include lessons learned and upcoming plans.</p>	E-215
	<p>The Hacker as an Artist: Building your Cybersecurity Career Portfolio Session ID: P10-6 • Track/Format: Track 5/Other Presentation Presenters: Gotham Sharma, Managing Director, Exeltek Consulting Group Description: Aspiring cybersecurity professionals must think of themselves as artists; artists utilize portfolios to demonstrate their work, the tools they use, the mediums they've experimented with, their specialties, and so on and so forth. In the absence of the paid professional experience that students often lack early in their careers, 'portfolios' consisting of conferences, competitions, courses taken, topics studied, leadership demonstrated, soft skills, personal projects, and several other key elements are invaluable tools that will help any candidate stand out. Learn how to build your portfolio and launch your cybersecurity career today!</p>	E-224

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 1

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
11:00 am - 11:55 pm	CONCURRENT PRESENTATIONS 10 (cont.)	
	<p>Inside the Game: How to Play the National Cyber League Session ID: P10-7 • Track/Format: Track 5/Panel Presentation Presenters: Dan Manson, Professor, Cal Poly Pomona (Lead); David Durkee, NCL Operations Manager, Lakeland Community College; Stephen Miller, NCL Chief Coach Ambassador, Eastern New Mexico University - Ruidoso; Costis Toregas Description: This engaging, interactive panel will feature players, coaches and those behind the scenes of the National Cyber League (NCL). We will describe how NCL provides an ongoing virtual training ground for participants to develop, practice, and validate their cybersecurity knowledge and skills using next-generation high-fidelity simulation environments. In the past year the number of NCL players has increased 50% from, 3,400 to over 5,000 competitors at the college and high school level. NCL is a scalable environment that is becoming a fixture in college and high school curriculum.</p>	E-221
	<p>Everyone can be Root: Administration and Routing with Oracle Virtual Box Session ID: P10-8 • Track/Format: Track 5/Software Demo Presenters: Matthew Lister, HPC Administrator, Utah State University College of Agriculture (Lead); Ethan Payne, GPU researcher, USU (Aggie Air) Description: This session will explain how a well provisioned desktop or end of life server can be converted to emulate an enterprise IT network and provide hands on administrative experience to multiple students. Our presentation will be based on a similar implementation by the Utah State University Linux club, of which we are both officers. While providing a tour of a demonstration network, we will explain our design decisions and practical solutions to the common problems our attendees may encounter. We have created a network in a box that allows the student administrators access to their virtual machines and allows those machines to provide public services on common ports. Participants will be introduced to virtual box command line administration, Apache virtual host routing, firewall rules, and more!</p>	E-305
	<p>Recalculating Route: Remapping the C5 Curriculum to the New CAE KUs Session ID: P10-9 • Track/Format: Track 2/Panel Presentation Presenters: Melissa Dark, Principal Investigator, Dark Enterprises Inc. (Lead); Beth Hawthorne, Professor, Union County College; Johnathan Yerby, Professor, Middle Georgia State University; Doc St. Clair, Lecturer, Middle Georgia State University Description: Technology and cybersecurity are constantly evolving, which also means that cybersecurity students must keep up. The NSA Center of Academic Excellence program released updated knowledge units and topics last year. The Catalyzing Computing and Cybersecurity in Community Colleges (C5) NSF funded project has a goal of providing cyber curriculum to jumpstart cyber security programs with free modules. At the end of 2018 there were seven modules that were mapped to NSA CAE standards, AP Computer Science Principles, and the ACM Computer Science Curricular Guidelines. In 2019 the CAE mappings were revised, and a new version of the curriculum is plan for release. Attendees will learn about the new integrated course, what has changed in the modules, the process involved in remapping, the new vision and a preview of the new C5 curriculum.</p>	E-317

DAILY SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT

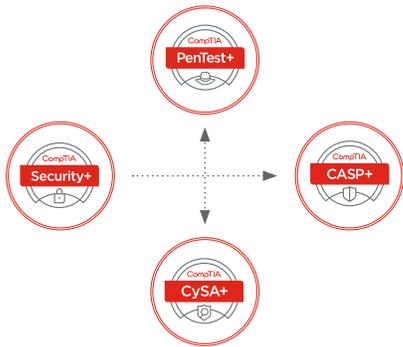
THURSDAY • AUGUST 1

MORNING CONCURRENT SESSIONS

TIME	DESCRIPTION	LOCATION
12:00 pm - 12:30 pm	Showcase Breakdown	Building F
12:05 pm	Closing of Summit	
12:15 pm	Bus transportation from BPCC to Hotel	
12:30 pm - 6:00 pm	AFTERNOON ACTIVITIES (optional add-on tours) (NOTE: additional fee - includes lunch, refreshments and transportation)	
	Melrose Plantation Tour - \$70 (includes lunch and drinks) Description: You're invited to experience the rich culture of North Louisiana on our Plantation Tour. A light lunch, with Louisiana flair, will be provided on the bus. The bus ride will be filled with fun facts and trivia about Louisiana and what makes our area unique. Stops include Natchitoches, Melrose Plantation, Cane River, Kaffe-Frederick General Mercantile Store, and the Steel Magnolia House. Time: 12:15 pm - 6:00 pm	
	"Us Up North" Culinary Food Tour - \$60 (includes lunch and drinks) Description: Please join us as we show off a mix of the wonderful flavors we offer up north. You will start the tour by enjoying a dish from Chef Harris' Official Meal of North Louisiana. Afterwards, we will board a shuttle and continue throughout the city making a few more stops at some of her favorite spots serving up the best dishes Shreveport-Bossier has to offer. You will enjoy a sample of the most popular dish or beverage each stop has on their menu. Come with an empty stomach! Time: 12:15 pm - 5:30 pm	
	Southern University Museum of Art at Shreveport - \$40 (includes lunch and drinks) Description: Journey to discover the "Art & Soul" of the African and African American experience at the Southern University Museum of Art Shreveport located in the heart of the West Edge Arts district in downtown Shreveport, Louisiana. Explore the art and artifacts from the major art-producing regions in West and South Africa, while 'feeling the beat' of the drum circle. Experience the stories, sights, and sounds of black life in America, as well as Shreveport through the lens of art and culture. Unleash your own art and soul. Time: 12:15 pm - 4:30 pm	

- Tours are open to 3CS attendees as well as their families and travel companions.
- All tours depart from Bossier Parish Community College at 12:15 pm. If we have people coming from the Horseshoe Hotel, we will run a bus from the hotel to BPCC, leaving the hotel at 12:15 pm. At the end of the tours, all buses will return to the Horseshoe Hotel via BPCC, so you may get off the bus at either location. The ending time for each tour is an estimate.
- Minimum number of guests to run each tour: 30; maximum: 50.
- Use the Edu+ mobile app to link to a Jotform to select your tour and to link further to PayPal to pay for the tour.
- Registration for your selected tour and payment must be completed by 6pm Tuesday July 30. You may register for a tour and pay by credit card at the 3CS Registration/Check-in Desk.

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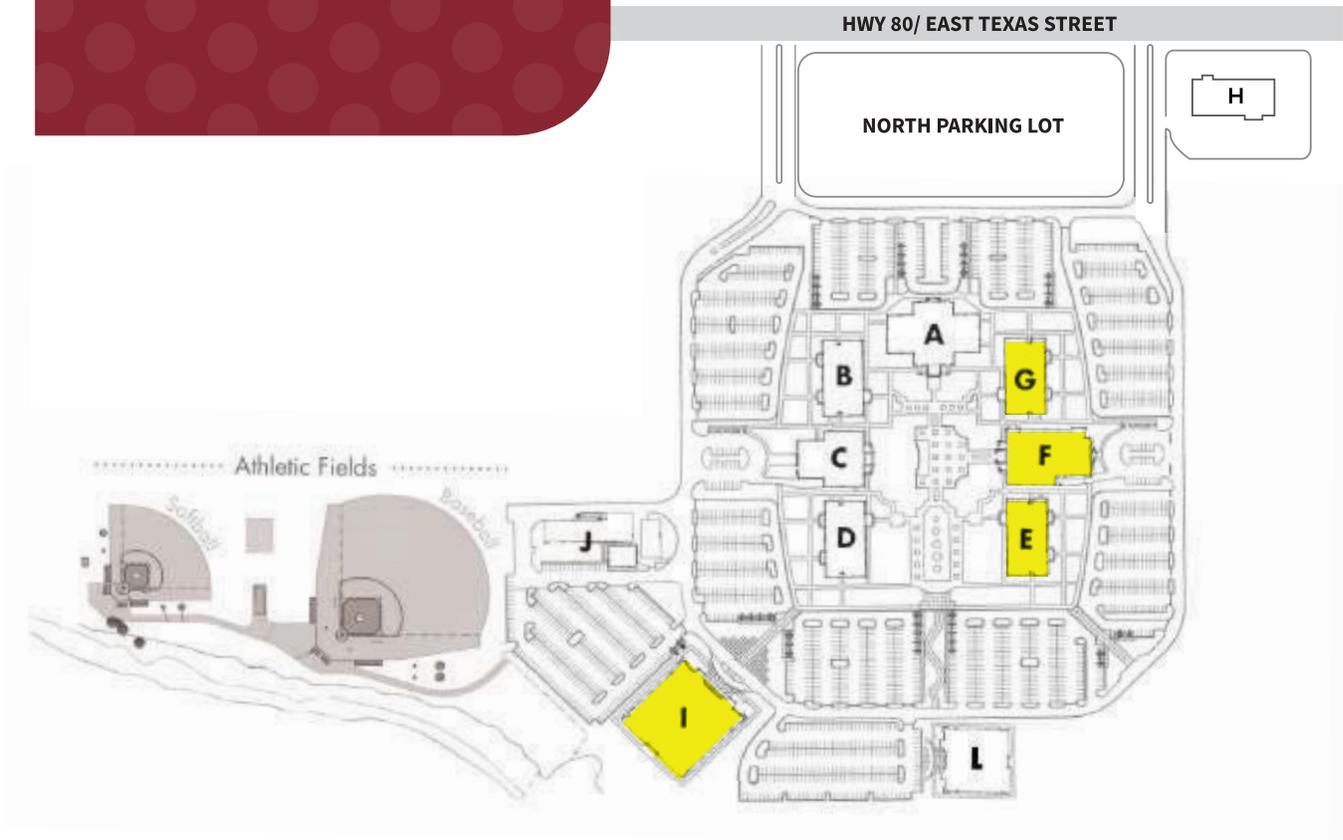
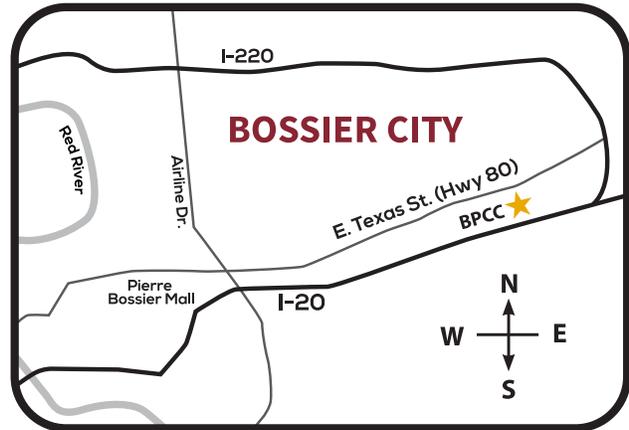
MAPS

BOSSIER PARISH COMMUNITY COLLEGE CAMPUS

 bossier parish
community college

Campus
MAP

**6220 East Texas Street
Bossier City, LA 71111
318.678.6000**



MAPS

JOB FAIR EMPLOYER BOOTHS

BPCC BUILDING F - 2ND FLOOR



BOOTH

EMPLOYER NAME

1	Bossier Parish Community College
2	LA Economic Development
3	BPCC
4	Ingalls Information Security
5	ECS-Net
6	Capitol Technology University
7	Red Hat
8	SNHU
9	ISHPI
10	University of New Orleans
11	NCC
12	NCC/Infosec
13	Job Fair Meeting Space
14	Job Fair Meeting Space
15	Job Fair Meeting Space

BOOTH

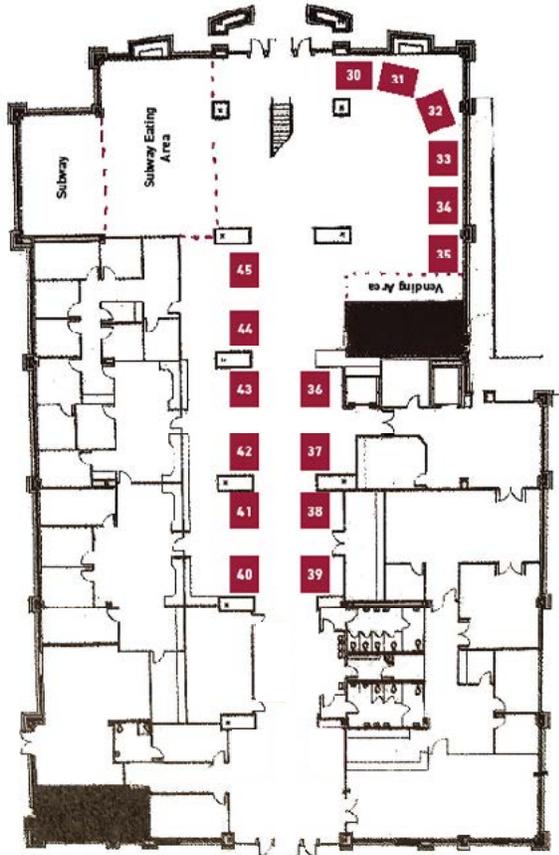
EMPLOYER NAME

16	Job Fair Meeting Space
17	BayPath University
18	Palo Alto Networks
19	NICE
20	NSA
21	SnyEd
22	California Cyberhub
23	GDIT
24	Cyber Innovation Center
25	IBM
26	IBM
27	NSF
28	EC-Council
29	Northwestern State University
Van	Mobile Vet Center

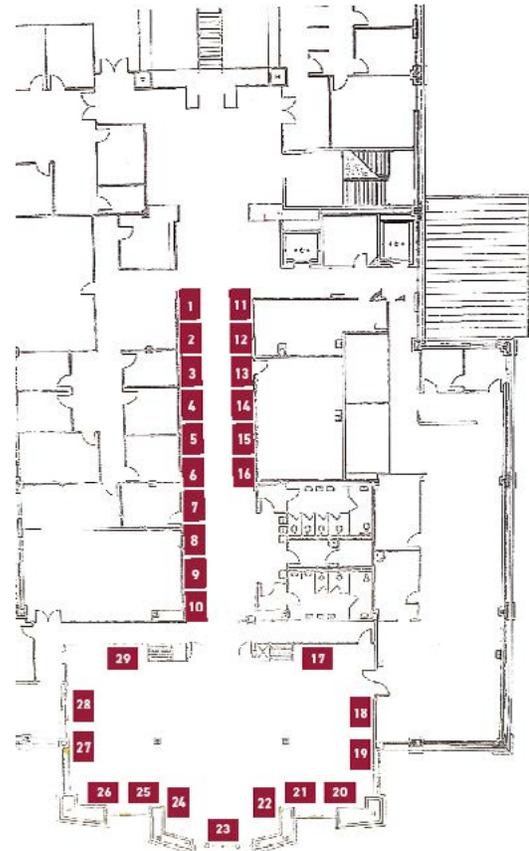
MAPS

SPONSOR/PRODUCER EXHIBIT BOOTHS

BPCC BUILDING F - 1ST FLOOR



BPCC BUILDING F - 2ND FLOOR



BOOTH	SPONSOR NAME
1	Bossier
2	LA Economic Development
3	CompTIA
4	780th
5	Capitol Technology University
6	CyberVista
7	Red Hat
8	SNHU
9	ISHPI
10	University of New Orleans
11	NCC
12	NCC/Infosec
13	CyberBit
14	Walden University
15	ISC2

BOOTH	SPONSOR NAME
16	Maracraft
17	BayPath University
18	Palo Alto Networks
19	NICE
20	NSA
21	SnyEd
22	California Cyberhub
23	GDIT
24	Cyber Innovation Center
25	IBM
26	IBM
27	NSF
28	EC-Council
29	Northwestern State Uni.
30	CSSIA

BOOTH	SPONSOR NAME
31	CWW
32	C5
33	BATEC
34	Practice Labs
35	DMC
36	Cengage
37	Middle George State
38	Certiport
39	Thomas Edison
40	Jones & Bartlett
41	Jones & Bartlett
42	Bossier Parish Schools
43	ABET
44	ACM
45	LaTech

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BUS SCHEDULE

2019 COMMUNITY COLLEGE CYBER SUMMIT (3CS)

PICKUP AND DROP-OFF LOCATIONS

Horseshoe Casino and Hotel
711 Horseshoe Blvd, Bossier City, LA 71111

Front of Main Lobby, To the right of water feature

Bossier Parish Community College (BPCC)
6220 E Texas St, Bossier City, LA 71111

Building F (Student Union)

TUESDAY • JULY 30

8:15 am	Horseshoe Hotel to BPCC for pre-summit meetings at Bossier Parish Community College
11:00 am	Horseshoe Hotel to Louisiana Downs for Invited Luncheon for NSF Centers, 3CS Sponsors, and 3CS Job Fair Employers
12:45 pm	Louisiana Downs to BPCC for Job Fair and Career Exploration Set-Up
12:45 pm	Horseshoe Hotel to BPCC for 3CS Job Fair and Career Exploration Attendees
4:45 pm	BPCC to Horseshoe Hotel
5:15 pm	BPCC to Horseshoe Hotel

WEDNESDAY • JULY 31

8:15 am	Horseshoe Hotel to BPCC
5:15 pm	BPCC to Horseshoe Hotel

THURSDAY • AUGUST 1

8:15 am	Horseshoe Hotel to BPCC
11:30 am	Horseshoe Hotel to BPCC (for family/friends to enjoy the 3CS tours)
12:15 pm	BPCC to Horseshoe Hotel

TOUR BUS TIMES THURSDAY • AUGUST 1

12:30 pm	Buses from BPCC to: <ul style="list-style-type: none"> • Melrose Plantation Tour (tour returns ~6:00 pm) • “Us Up North” Culinary Food Tour (tour returns ~5:30 pm) • Southern University Museum of Art at Shreveport (tour returns ~4:30 pm)
At the end of each tour, the bus will return to BPCC and the Horseshoe Hotel; Guests may exit the bus at either location.	

SPONSOR INDEX

2019 COMMUNITY COLLEGE CYBER SUMMIT

SPONSOR

AD LOCATION

Bay Path University	9
CompTIA	54
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Cybint Solutions	54
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Franklin University	61
General Dynamics Information Technology (GDIT)	14
IBM	7
Jones and Bartlett Learning	54
Louisiana Tech University	58
Northwestern State University	27
Palo Alto Networks	45
Practice Labs	58
Red Hat	27
SynED / California Cyberhub	5
Thomas Edison State University	58
(ISC) ² , Inc.	54

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- Accepting maximum transfer credit – up to 94 hours
- Minimizing tuition costs – \$398 per credit hour
- Providing convenient online course options

For more information about partnerships with Franklin University, contact:

SAMANTHA SHEAR

Director, Community College Alliance + Domestic Locations

614.947.6051 | samantha.shear@franklin.edu



Franklin University is nonprofit and accredited by the Higher Learning Commission (hlcommission.org/800.621.7440).

QUICK LOCATOR

2019 COMMUNITY COLLEGE CYBER SUMMIT

SESSION ID	LOCATION	PRESENTER	SESSION TITLE (SHORTEND)
TUESDAY CYBERSECURITY SKILLS DEVELOPMENT WORKSHOPS • 9:00 AM - 5:00 PM			
CSDW-1	E-226	O'Brien	Hands-On Cryptography
CSDW-2	E-214	Servin	Secure Scripting
CSDW-3	E-204	Latas	Intro to IBM's QRadar
CSDW-4	E-203	Tobey	CSJ: Paper Development Workshop (PDW)
WEDNESDAY MORNING WORKSHOPS 1 • 9:00 AM - 11:55 AM			
W1-1	E-204	Simmons	SCADA/Industrial Control Systems Security
W1-2	E-214	Bagby	Make Learning Cybersecurity FUN by Using Capture the Flag
W1-4	E-226	Bhattacharya	Programming Smart Contracts in Ethereum Blockchain using Solidity
W1-5	E-303	Zeanchock	Capture the Flag with Escalate
WEDNESDAY MORNING MINI-WORKSHOPS 1 • 9:00 AM - 10:55 AM			
M1-1	G-216	Watkins	Design a Computer Forensics Competitions - an exciting approach for students to apply their skills.
M1-2	G-218	Vega	How to Level Up
M1-3	G-325	Leary	Become an NSA CAE Peer Reviewer or Mentor
M1-4	G-203	Harris	There were NO Refreshments at Network(ing) events. Tales of a Clueless Cybersecurity Student.
WEDNESDAY MORNING PRESENTATIONS 1 • 9:00 AM - 9:55 AM			
P01-1	E-203	Hurley	Exploring the Impact of Incorporating Challenge-Based Learning into the Classroom
P01-2	E-205	Teets	DREAMs - Developing Rigorous and Enhanced Academic Modules
P01-3	E-206	Salo	Institutionalizing the NIST Cyber Security Framework
P01-4	E-213	Hinojosa	A Student & Director's Journey: Cultivating the Nation's Largest Cybersecurity Student Association
P01-6	E-224	West	Cyber Up! Digital Forensics & Incident Response - NSF ATE Project
P01-7	E-221	Jones	Learn About the CyberCorps SFS Community College Cybersecurity Pilot Program
P01-9	E-317	Woodard	0 to 100: Building a Network of Cyber Security Professionals.
WEDNESDAY MORNING PRESENTATIONS 2 • 10:00 AM - 10:55 AM			
P02-3	E-206	Nguyen	Hands on Approach to Teaching Cybersecurity and IT/Networking
P02-4	E-213	Keh	What's Next?
P02-5	E-215	Wallace	Navigating the Cybersecurity Curriculum Gauntlet: from Industry needs to Student Interest
P02-7	E-221	Sands	Measuring the impact of community colleges on preparing the cybersecurity workforce.
P02-8	E-305	Ricciuto	Looking for academic resources? IBM has you covered!
P02-9	E-317	Seshagiri	Employers + NICEFramework + CMU SWAssuranceCurriculum + Apprenticeships =
WEDNESDAY MORNING PRESENTATIONS 3 • 11:00 AM - 11:55 AM			
P03-1	E-203	Plaisance	So you'd like to host your own CTF event but don't know where to start....
P03-2	E-205	Dark	An Evaluation of Learning and Interest in Applied Cryptography Using Two Delivery Methods
P03-3	E-206	Quissaunee	Classroom-Ready Interactive Content to Support Cybersecurity Instruction
P03-4	E-213	Rapp	Cybersecurity/Jumpstart Your Cybersecurity Curriculum with Hands-On Training
P03-5	E-215	Craig	Traditional cybersecurity education is not enough! Live fire, hands on training is needed.
P03-9	E-317	Tang	Shaping ACM Cybersecurity Curriculum Guidelines
WEDNESDAY AFTERNOON MINI-WORKSHOPS 2 • 12:00 PM - 1:55 PM			
M2-1	G-216	Dickens	It Takes a Cyber Center: Developing Capabilities Through Collaboration
M2-2	G-218	Becker	Implement a stack of PIs (virtually & physically) for Cyber & Data Analytics skills development
M2-3	G-325	Kraus	Think that apprenticeships can't work in cybersecurity? Think again.
WEDNESDAY AFTERNOON PRESENTATIONS 4 • 12:00 PM - 12:55 PM			
P04-1	E-203	McCumber	How the Cybersecurity Workforce Gap Will Influence Your Career
P04-2	E-205	Hon	Applied Digital Forensics - Finding Clues to Help Solve A Mystery or Crime
P04-3	E-206	Libassi	Sticker Heist - A Cybersecurity Student Challenge Review a hands on hacking challenge.
P04-4	E-213	Alvarez	Think you know hands-on? EC-Council introduces a new interactive lab challenge platform, CyberQ!
P04-5	E-215	Miller	SME Insight to become a CAE institution
P04-6	E-224	Black	Toward a National Toolkit for Cybersecurity Education in High School: A Research Study
P04-7	E-221	Ricciuto	Build It, and They Will Come: Learn how IBM volunteers built #IBMcyberDay4Girls
P04-9	E-317	Dye	Partnerships for Information Technology Success: A Best Practices Discussion
WEDNESDAY AFTERNOON PRESENTATIONS 5 • 1:00 PM - 1:55 PM			
P05-2	E-205	Schmelz	Immersive Education: Accelerating the availability of cybersecurity workers to the workforce
P05-3	E-204	Maritato	"Cybersecurity learning in the Cloud" implementing cloud based cybersecurity learning environment.
P05-4	E-213	Pailen	A Wake-Up Approach to Developing Multi-Disciplinary Cybersecurity Faculty and Research
P05-6	E-224	McGill	Rolling with the Tide: How to create and run an effective College Cybersecurity Club
P05-7	E-221	Jones	Scholarship For Service Community College Cyber Pilot (C3P) Program
P05-8	E-305	Stackpole	CPTC - Building tomorrow's cybersecurity experts
P05-9	E-317	Nguyen	Higher Education Evolution: Elevating Your Programs to Achieve Desired Outcomes

QUICK LOCATOR

2019 COMMUNITY COLLEGE CYBER SUMMIT

SESSION ID	LOCATION	PRESENTER	SESSION TITLE (SHORTEND)
WEDNESDAY AFTERNOON WORKSHOPS 2 • 2:00 PM - 5:00 PM			
W2-1	E-204	Scott	Teach real-world cyber skills on a platform conducive to learning in the lab, at home or on the go.
W2-2	E-214	Miller	CAE2Y Application Process – Mapping and Criteria
W2-4	E-226	Trevethan	Cybersecurity Program enables faculty to protect life in the digital age one student at a time.
W2-5	E-303	Masino	Teaching IIOT (ICS) in your existing classrooms using Raspberry PI
WEDNESDAY AFTERNOON PRESENTATIONS 6 • 2:00 PM - 2:55 PM			
P06-1	E-203	Brooks	Industrial Control Systems (ICS) - Protecting Vital Infrastructure
P06-2	G-218	St.Clair	Find the next cybersecurity student in a haystack!
P06-3	E-206	Schiavo	Smarter NOT Harder: Teaching Cybersecurity Using "Hands-on" Cloud-Based Resources
P06-4	E-213	O'Brien	National CyberWatch Center Cybersecurity Curricula: A Complete Solution
P06-5	E-215	Smallwood	Preparing Your CyberSecurity Program for Student Success
P06-7	E-221	Jacobs	Integrate Mobile Forensics into cybersecurity courses
P06-9	E-317	Whittaker	How to build a successful 3+1 program between developing CAE partners.
WEDNESDAY AFTERNOON MINI-WORKSHOPS 3 • 3:00 PM - 5:00 PM			
M3-1	G-216	Moskal	Transform the Classroom into a Virtual Internship with Cases, Job Roles, Mentors and KSA
M3-2	G-218	Simmons	Mobile Device Forensics
M3-3	G-325	Khan	Intro to IBM QRadar
WEDNESDAY AFTERNOON PRESENTATIONS 7 • 3:00 PM - 3:55 PM			
P07-1	E-203	Nixon	Success in Online Classroom
P07-2	E-205	Malkan	DevSecOps = DevOps + Secure Coding
P07-3	E-206	Meghabghab	Wearable Medical Devices vulnerabilities Exploited: The case of Heart Monitor
P07-4	E-213	Wesley	Building cybersecurity competency through experiential learning, guided pathways and
P07-5	E-215	Bencic	How does having a cyber club help increase a cybersecurity programs enrollment.
P07-6	E-224	Wu	The Rise of a New Career - Cybersecurity Insurance Adjuster
P07-7	E-221	Barnett	Securing The Business: A Data Resource Focused Concentration in Information Security
P07-9	E-317	Zdravkovich	Federal Panel - Support for Cyber Ed
WEDNESDAY AFTERNOON PRESENTATIONS 8 • 4:00 PM - 4:55 PM			
P08-1	E-203	Woods	Cyber Up Your Cyber Game! Infuse Cyber Comps, Certs, & Industry Networks into your curriculum.
P08-2	E-205	Martin	Stop issuing secure credentials to imposters
P08-3	E-206	Grotegut	SF Bay Region K14 Cybersecurity Pathways, Competitions, and Summer CyberCamps (v2.0)
P08-4	E-213	Ricciuto	From Battlefield to Cyberspace: How Veterans Can Help Fill the U.S. Cybersecurity Workforce Gap
P08-6	E-224	Willis-Ford	Perceived Impact of Barriers to Retention on Women in Cybersecurity
P08-7	E-221	Gibson	ABET Accreditation of 2-yr cybersecurity programs
P08-8	E-305	Wylie	The Pentester Blueprint: A Guide to Becoming an Ethical Hacker
P08-9	E-317	Dragos	Evolution of a Cyber Program: From Facilities to the Accreditation Process
THURSDAY MORNING MINI-WORKSHOPS 4 • 10:00 AM - 12:00 PM			
M4-1	G-216	Hussein	How to incorporate the cloud in your cyber security class?
M4-2	G-218	Leuschner	KU Mapping for CAE2Y redesignating schools
M4-3	G-325	Woods	GenZs are you Cyber Career Savvy? Break the mold and design your destiny here!
THURSDAY MORNING PRESENTATIONS 9 • 10:00 AM - 10:55 AM			
P09-1	E-203	Tibaquirá	Developing a robust Cybersecurity curriculum integrated with Cyber-Range scenarios in real-time.
P09-2	E-205	Stange	Increasing K-12 Educator Knowledge to Prevent Cyberbullying & Enhance K-12 Cybersecurity
P09-3	E-206	Butler	Operationalize the student experience by incorporating security operations into your curriculum
P09-4	E-213	Dornbush	Ready Player 0x01: How Gamified Ecosystems Will Save Us All
P09-5	E-215	Miller	CAE Mentor & Reviewer tips on how to prepare your community college to qualify for CAE2Y
P09-6	E-224	Himmelspach	Building a collaborative STEM Club with High school and College students
P09-7	E-221	Gibson	ABET Accreditation of 2-yr cybersecurity programs
P09-8	E-305	Sands	New Materials Available for your Cybersecurity Program
P09-9	E-317	Watkins	Empowering Parents with Technology to mitigate Cyberbullying.
THURSDAY MORNING PRESENTATIONS 10 • 11:00 AM - 11:55 AM			
P10-1	E-203	Stone	Building Workforce Competence with the Nice Challenge.. a Capstone pilot
P10-2	E-205	Sands	Establishing Effective Cybersecurity Career Pathways
P10-3	E-206	Ward	Engaging 21st Century Students
P10-5	E-215	West	The California Cybersecurity Apprenticeship Project at Coastline College
P10-6	E-224	Sharma	The Hacker as an Artist: Building your Cybersecurity Career Portfolio
P10-7	E-221	Manson	Inside the game: How to play the National Cyber League.
P10-8	E-305	Lister	Everyone can be Root: Administration and Routing with Oracle Virtual Box
P10-9	E-317	Dark	Recalculating Route: Remapping the C5 Curriculum to the new CAE Kus

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