

The Hampton Roads Cybersecurity Education, Workforce, and Economic Development Alliance

HRCyber Steering Committee Meeting

May 18, 2017, 11:00-1:00

Teleconference

[Join WebEx meeting](#) (Click this link to join via computer)

Meeting number (access code): 926 026 471

Join by phone

1-855-244-8681 Call-in toll-free number (US/Canada)

1-650-479-3207 Call-in toll number (US/Canada)






HRCyber Website - <http://securitybehavior.com/hrcyber>

Meeting Agenda






ITEM	PRESENTER
WELCOME AND PROJECT STATUS UPDATES	Brian Payne
VSGC Activities	Mary Sandy/Chris Carter
Cybersecurity Workforce Survey	Tancy Vandecar-Burdin
Articulation Agreements	Brian Payne
Virtual Lab	Chunsheng Xin
Curriculum review and revision	Brian Payne
GO Virginia	Eric Weisel
VB STEM Trifecta Challenge	Sara Lockett
HRCyber Cybersecurity Workforce Summit	Brian Payne
Open discussion	Brian Payne

HRCyber Project Status Update

Goal 1: Coordinate educational pathways between public high schools, community colleges, and four year institutions

Associated Activities with Goal 1	Status
Conduct monthly Steering Committee meetings	
Develop at least two articulation agreements <small>(TCC-ODU agreement completed Dec 2016) (TNCC-ODU agreement completed April 2017)</small>	
Identify curricula revisions <small>(1st meeting held April 7, 2017)</small>	
Create virtual lab	
Review and/or revise articulation agreements	

Goal 2: Gather information from the regional workforce about the knowledge units taught in cybersecurity programs and revise those curricula where needed.

Associated Activities with Goal 2	Status
Conduct two focus groups with employers to determine their views on cybersecurity <small>(Completed October 2016)</small>	
Complete Cybersecurity Workforce Survey	
Conduct DACUM workshop and chart <small>(Completed February 2017)</small>	
Assess Curricula Revisions	
Complete Cybersecurity Educational Survey	



Not started



25% complete



50% complete







75% complete











Complete

HRCyber Project Status Update

Goal 3: Coordinate academic programming between educational institutions and workforce.

Associated Activities with Goal 3	Status
Conduct Cybersecurity Counselor Workshop <small>(completed Feb 23, 2017)</small>	
Create HRCyber homepage <small>(Completed October 2016)</small>	
Train faculty on Virtual Lab <small>(ODU trains TNCC faculty on virtual lab)</small>	
Train college counselors/academic on cybersecurity programs	

Goal 4: Strengthen the cybersecurity capabilities of the regional workforce.

Associated Activities with Goal 4	Status
Develop and produce at least four cybersecurity career awareness videos	
Conduct Cybersecurity Saturday Series for high school students and parents <small>(March 2017)</small>	
Host a cybersecurity workforce development summit in fall 2017	
Develop marketing material	
Participate in regional cybersecurity summits and conferences	
Attend NICE Conferences (2016/2017) <small>(Attended 2016 NICE Conference)</small>	
Provide Virginia Beach High School Interns to regional cybersecurity employers	
Provide Internships and apprenticeships to regional cybersecurity employers	



Not started



25% complete



50% complete



75% complete



Complete

Project Status Report

Other Completed Activities/Event by HRCyber Partners

Activity/Event

1. Cyber Protection Resources (CPR) a HRCyber partner completes the Virginia Cyber Convention & Expo (October 5-6, 2016, Virginia Beach Convention Center, Virginia Beach, VA)
2. Thomas Nelson Community College a HRCyber partner completes the 2016 Cyber Security Conference (October 7, 2016, Peninsula Workforce Development Center, Hampton, VA)
3. [TCC announces CyberCorps Scholarship for Service program with NSU \(November 15, 2016\)](#)
4. NICE Webinar – *“Building your cybersecurity team with apprenticeships.”* HRCyber partners Leigh Armistead (Peregrine Technical Solutions) and William Clement (Tidewater Community College) discuss apprenticeship opportunities. (November 16, 2016)
5. TCC-ODU Cybersecurity Articulation Agreement Signing Ceremony, February 8, 2017, 10:30 am, Richmond, VA
6. Peregrine Technical Solutions has hired two cybersecurity apprentices (Jan/Feb 2017) – one is working in Juneau, AK and the other is in Alexandria, VA. They are completing their course work through TCC via distance learning.
7. Dan Bowden, VP & CISA Sentara Healthcare, “Cyber Student Staffing Program”, 7 interns have been identified to work in the ISO office in May 2017 – 5 from ODU, 1 from Regent, and 1 from TCC.

School	Major	Source	Year	Working Title
ODU	Cyber	CISO Contact	Fr	Jr Cyber Risk Analyst
ODU	Cyber	CISO Contact	Fr	Jr Cyber Risk Analyst
Regent	Cyber	CISO Contact	So	Jr Cyber Risk Analyst
ODU	Cyber	CSIIP	Jr	Jr Cyber Security Analyst
ODU	IST	CSIIP	Jr	Jr Cyber Security Analyst
ODU	CS	CSIIP	So	Jr Cyber Security Analyst
TNCC	CS	CSIIP	So	Jr SecDevOps Analyst

Project Status Report

Other Completed Activities/Event by HRCyber Partners

Activity/Event

8. TNCC-ODU cybersecurity articulation agreement signing ceremony – April 21, 2017, 9:00am, TNCC Moore Hall
9. Cyber Business Roundtable III meeting – March 28, 2017 – meeting with regional business leaders on cyber issues. For additional information visit this webpage. <https://www.yesvirginiabeach.com/Key-Industries/information-services/Pages/cyber.aspx>
10. ODU trains TNCC faculty on virtual lab – May 9, 2017
11. Cybersecurity course curricula review meeting – April 7, 2017
12. ODU receives 3-year NSF REU cybersecurity – Link to article [NSF REU Cybersecurity Grant](#)

Virginia Space Grant Consortium Activities

Mary Sandy and Chris Carter



- DACUM Workshop – December 13-14, 2016 (Complete)
- DACUM Worksheet (Complete Feb 2017)
- Counselors Workshop – February 23, 2016, ODU Peninsula Center (Complete Feb 23, 2017)
- Cyber Saturdays – March 11 (Hampton) and March 25 (Va Beach ATC) (Completed March 25, 2017)
- Cybersecurity Workforce Videos (Completed April 2017)
www.vsgc.odu.edu/cyber
- Internships ([CSIIP](#))



Cybersecurity Counselors Workshop, Feb 23, 2017
ODU Peninsula Center



Cyber Saturday, March 11, 2017, ODU Peninsula Center

Cybersecurity Workforce Survey – Update

Tancy Vandecar-Burdin

- HRCyber Educational Partners lunch and discussion.
Wednesday, May 31, 2017, 11:30-1:30
ODU Main Campus,
Batten Arts & Letter Building Room 9024
RSVP: <https://goo.gl/forms/WAEN74G5yHzsEaGq1>
- Topics to be discussed will include:
 - What are graduates' experiences with finding jobs or moving from high school to community college to four-year/graduate programs?
 - More specifically, what is the placement rate for students in cyber jobs?
 - How quickly do students find jobs (time to place)?
 - What difficulties do graduating student have finding jobs in cybersecurity?
 - For the high schools, what proportion of students go on to college in a cyber-specific program versus entering directly into the workforce?

Articulation Agreement – Update

Brian Payne

- Thomas Nelson CC Articulation Agreement Complete. Signing Ceremony, April 21, 2017, 9:00am, Thomas Nelson CC
- TCC – ODU Cybersecurity Articulation Agreement Complete - Signing Ceremony, Richmond, VA, February 8, 2017
- ODU exploring online articulation agreement with NOVA.
- Links to articles related to the Articulation Agreements
 - [News@ODU, ODU-TCC Cybersecurity Education Agreement Formalized in Richmond](#)
 - [About TCC, New TCC and ODU agreement gives cybersecurity students seamless path to bachelor's. Feb 9, 2017](#)
 - [Governor of Virginia flickr](#) – Photos of signing ceremony
 - [Virginia Pilot Guest Columnist – Brian Payne & Daniel DeMarte: Joining forces to secure cyber infrastructure. Feb 19, 2017](#)
 - https://www.odu.edu/news/2017/4/tccc_cyber_agreement#.WP9nFU11o_w – ODU@News article.
 - https://www.odu.edu/news/2017/4/cyber_agreement#.WP9pBU11o_w – ODU@News article.
 -
 - <http://www.dailypress.com/news/education/> - Includes a video of the event
 - <http://www.dailypress.com/news/hampton/dp-tccc-and-odu-signed-an-articulation-agreement-20170421-photogallery.html> - Photo gallery of the event

Virtual Lab

Chunsheng Xin

- Purchase request for 3 Dell computers submitted
- Update on status of access
- Faculty training sessions
 - TNCC faculty training session – May 9, 2017
 - TCC faculty training session
 - High School cybersecurity, information technology and computer science teacher demonstration and training session

Cybersecurity Curriculum Review

- Enterprise cybersecurity major
- Required internship
- Hands-on experiences expanded
- Laboratory enhancements
- Cyber operations major created
- Cybersecurity Risk Management course, Dr. Ariel Pinto, Engineering Management and Systems Engineering

Go Virginia Opportunities

Eric Weisel



VIRGINIA INITIATIVE FOR
**GROWTH &
OPPORTUNITY**
IN EACH REGION

- A Business-Led Statewide Initiative
 - Promote regional collaboration on economic development
 - **FY 2017 State budget includes \$27.5 million in funding**
- Next up: Go Virginia Cyber Working Proposal Plan (see slides 13-20 for details)

Go Virginia Cyber Working Proposal Plan

Go Virginia Cyber Working Group

18 May 2017

GO Virginia Orientation Conference

- GO Virginia Orientation Conference held on 20 April 2017
 - Conference materials can be found at:
<http://www.dhcd.virginia.gov/index.php/go-virginia.html>
- A Business-Led Statewide Initiative to promote regional collaboration on economic development
 - Approx. \$28 million in GO Virginia Grants
 - Est \$2-3M of this available for Hampton Roads
- GO Virginia Purpose Statement

“Create more higher paying jobs through incentivized collaboration, primarily from out-of-state revenue, which diversify and strengthen the economy in every region”

GO Virginia Budget (presented 4/20/17)

	FY 2017	FY 2018	TOTAL
Capacity Building	3,600,000	2,250,000	5,850,000
Formula Allocation		10,900,000	10,900,000
Competitive		11,300,000	11,300,000
TOTAL	3,600,000	24,450,000	28,050,000

Working Title

- Proposal working title:

Cybersecurity Education, Workforce and Economic Development Alliance
(HRCyber) Collaboration Laboratory (Co-Lab)

- Short title:

HRCyber Co-Lab

Concept

- Brick and mortar collaboration center at the Virginia Beach Higher Ed Center (ideally) focusing on collaboration, workforce development, jobs creation, and innovation
- Features:
 - **Virginia Cyber Trail:** collaborate among multiple regions in the Commonwealth
 - **Bridging the Experience Gap:** create a clearing house for internships to take graduates of Virginia higher education programs the rest of the way to cyber jobs; foster programs to connect transitioning military to higher education academic programs
 - **Cyber Arena:** innovate, experiment, and train through a collaboration between onsite, HRCyber university partner's cyber labs, other region's university cyber labs through the Virginia cyber Trail; demonstration environment to prepare the way to transition university intellectual property to commercialization partners

GO Virginia Ask

- Grant proposal ask: \$2M based based on (1) pricing of ODU and HRCyber partner efforts and (2) availability of matching funds
- Matching funds provided by:
 - ODU space at Virginia Beach Higher Ed Center
 - ODU and HRCyber partner equipment and software contributions
 - Imputed IDC on ODU and state-funded HRCyber partner staffed labor
 - Collected and projected HRCyber Co-Lab Industry Association membership fees
 - HRCyber business partner cash and other contributions
- Proposal submitted by ODU/ODURF/VMASC on behalf of the HRCyber partners
- Go Virginia funds granted and managed through ODU/ODURF/VMASC for 2 years then transition to a member- or self-funded 501(c)(3) or similarly structured entity

Proposal Schedule

- May 15--present concept and draft proposal at Go Virginia Cyber Working Group
- May 18--concept considered by HRCyber
- May 30-submit--proposal meetings bi-weekly working to final pre-RFP draft
- June TBD--Go Virginia proposal criteria published
- End June--Red Team review of draft proposal with key stakeholders
- Early July--ready to submit

Next Steps

- Stand by for data calls from Eric Weisel (VMASC) this week and next
 - Description of your organization (we have a number of these already)
 - Ongoing HRCyber or other cyber-related programs to continue
 - Cyber-, workforce development-, jobs creation-related performance history
 - Initial pricing and match requests
- Proposal working draft by May 30
- Pricing
 - Request if funded (how will your organization contribute and at what cost)?
- Match
 - Initial cash contribution (or membership fee) to go to hiring proposal writer(s)?
 - Cash contribution (or membership fee) if funded
 - Commitment for funded internships
 - In-kind contribution (contributed indirect cost, equipment, software)



VBCPS STEM Trifecta

- VBCPS STEM Trifecta

2017 STEM Robotics, Maker, & Cyber Security Challenge
June 8, 2017, 10AM-4PM
Virginia Beach Convention Center

For details visit their website

<http://www.vbstemtrifecta.com/about.html>

The poster features a central blue box with the text "STEM TRIFECTA CHALLENGE". Three lines radiate from this box to three smaller blue boxes: "ROBOTICS" at the top, "MAKER" at the bottom left, and "CYBER SECURITY" at the bottom right. Each of these boxes contains a small image related to the challenge. The "ROBOTICS" box shows a group of people with a robot. The "MAKER" box shows a person working at a table with various tools and materials. The "CYBER SECURITY" box shows a person looking at a computer screen. Below these boxes is a white box with the event details: "Thursday, June 8, 2017", "Public Invited 10:00AM - 4:00PM", "Virginia Beach Convention Center", "For more information contact Office of Technical & Career Education 648-6180 or visit the website www.vbSTEMtrifecta.com". At the bottom of the poster is the Virginia Beach City Public Schools logo and the tagline "CHARTING THE COURSE".

**2017 STEM TRIFECTA:
ROBOTICS, MAKER AND
CYBER SECURITY CHALLENGES**

ROBOTICS

STEM TRIFECTA CHALLENGE

MAKER

CYBER SECURITY

Thursday, June 8, 2017
Public Invited 10:00AM - 4:00PM
Virginia Beach Convention Center
For more information contact
Office of Technical & Career Education 648-6180 or
visit the website www.vbSTEMtrifecta.com.

VIRGINIA BEACH CITY PUBLIC SCHOOLS
CHARTING THE COURSE

HRCyber Cybersecurity Workforce Summit

Brian Payne

- Initial Planning for Cybersecurity Workforce Summit
 - Tentative date – October 27, 2017
 - Location – Virginia Beach Higher Education Center
- Purpose. To highlight the achievements of HRCyber, its partners and provide information to the public on cybersecurity education programs and employment.
- Speakers/Presentations to be determined
- Create a working group for planning and execution of summit

Other upcoming Cybersecurity conferences/events

- NATO Transformation Command, How Should NATO Operate in Cyberspace Workshop, May 23-25, 2017, Norfolk, VA
- Norfolk State University, CASE Workshop on Cyberpsychology, June 7-8, 2017, Norfolk, VA
- Thomas Nelson Community College, 2017 Regional Cybersecurity Conference: Cybersecurity and the Internet of Everything, October 13, 2017, Hampton, VA

Steering Committee Meeting Schedule

(3rd Thursday of the month from 11:00-1:00)

Month	Date/Time	Who	Comments
January 2017	19th/11:00-1:00	All HRCyber members	In-person meeting – ODU Peninsula Center
February 2017	23rd/11:00-1:00	Steering Committee	Teleconference
March 2017	16th/11:00-1:00	Steering Committee	Teleconference
April 2017	21st/8:30-12:00	All HRCyber members	In-person meeting – Thomas Nelson Community College
May 2017	18 th /11:00-1:00	Steering Committee	Teleconference
June 2017	15 th /11:00-1:00	Steering Committee	Teleconference
July 2017	20th/11:00-4:00	All HRCyber members	In-person meeting – ODU Norfolk – Note change in date for this meeting. This will be an extended meeting with representatives from NICE coming down to visit.
August 2017	17 th /11:00-1:00	Steering Committee	Teleconference
September 2017	14 th /11:00-1:00	Steering Committee	Teleconference
October 2017	19th/11:00-1:00	All HRCyber members	In-person meeting
November 2017	16 th /11:00-1:00	Steering Committee	Teleconference
December 2017	14th/11:00-1:00	All HRCyber members	In-person meeting