Commonwealth Cyber Initiative

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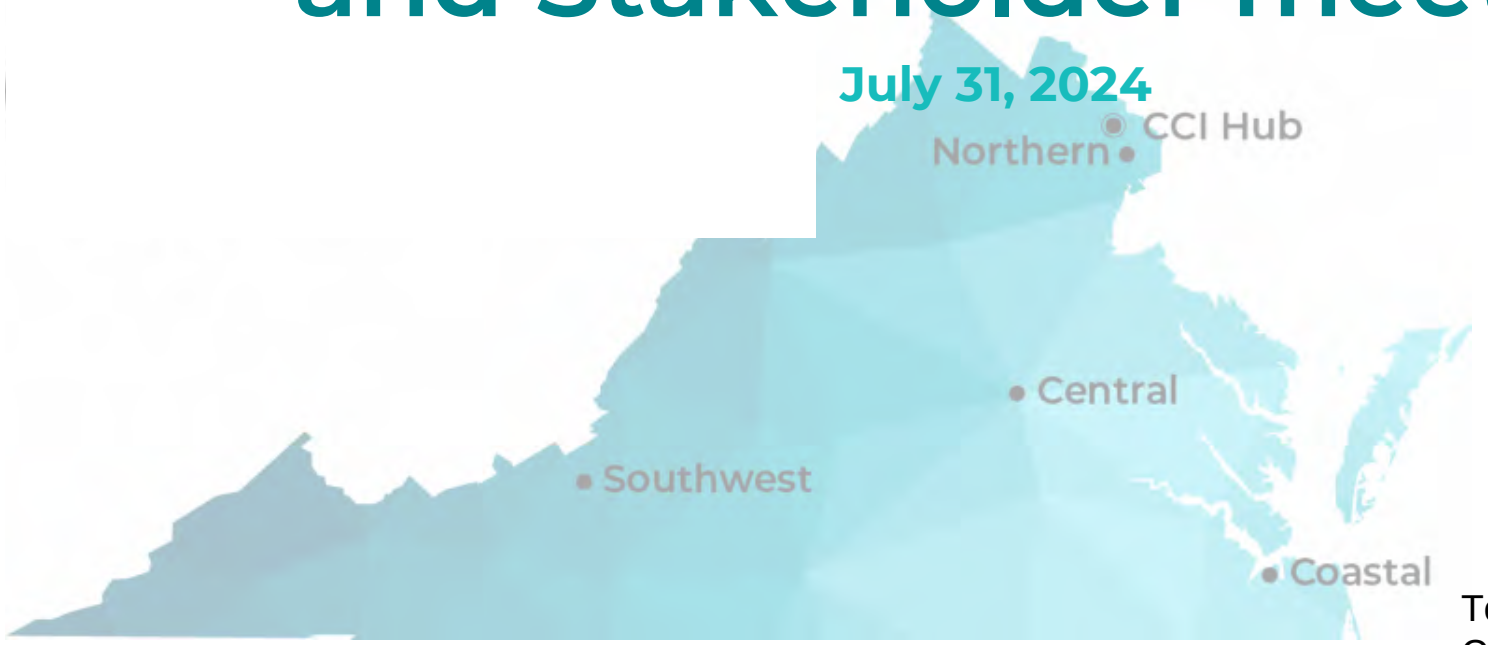
COVA CCI Internship Clinic
COVA CCI Annual Update and Stakeholder meeting

July 31, 2024



Research | Innovation | Workforce Development

Teresa Duvall
COVA CCI Internship Clinic Director
and CYSE 368 Chair of Internship,
Old Dominion University

Who/ What /Why

- COVA CCI established a Cybersecurity Internship Clinic last spring as a pilot.
- Purpose:
  - To serve micro small businesses and local/small government in the Hampton Roads community
  - To increase experiential learning with students in cybersecurity education
  - To provide cyber-as-a-service to the Hampton Roads community
- Eight students supported two micro businesses over 15 weeks
- The result was a resounding success!

What is a Cybersecurity Clinic?

The COVA CCI/ODU Cybersecurity Clinic uses a model like what has been done with law schools and medical schools, where students work with real-world clients who have limited resources to gain valuable hands-on experience.

Using this model, we have students with diverse backgrounds and academic expertise work with local business clients to evaluate and strengthen their cybersecurity risk profile. At the same time, the students will gain real-world experience working with clients and other team members, through the completion of a cybersecurity risk assessment and presenting their findings to the business client.

What is a Cybersecurity Clinic Video:
https://youtu.be/mYCka8oF7rQ

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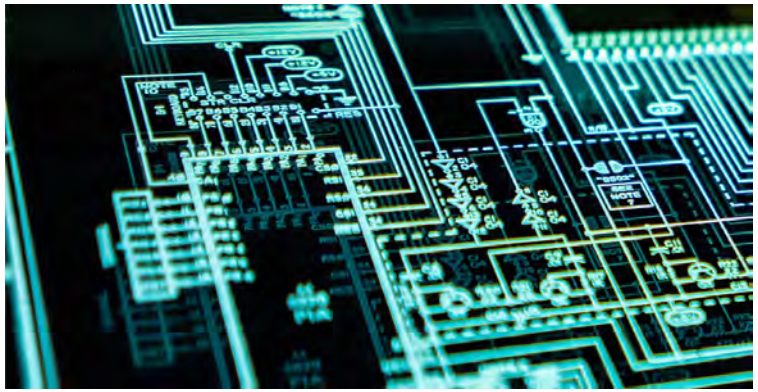
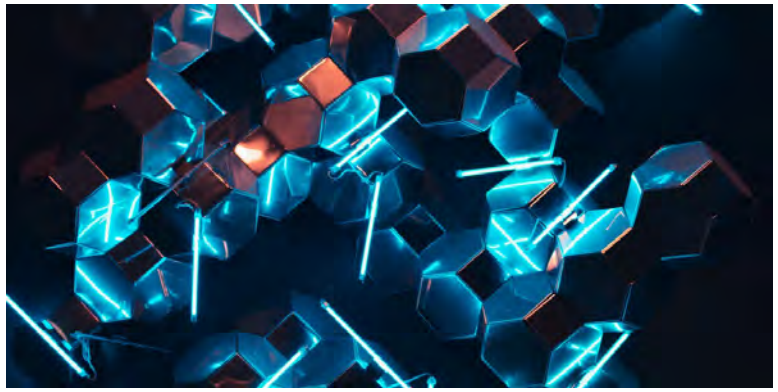
Why Clinics Work



Providing essential cybersecurity services

University-based cybersecurity clinics help clients develop long-term cybersecurity defense, increase their resilience, and expand their cybersecurity capacity. Students provide a range of digital security services, such as vulnerability and risk assessments, cybersecurity policy templates, incident response plans, ransomware training



Prioritizing under-resourced organizations

The widespread effects of a successful cyber attack can have broad impacts, yet many public interest organizations lack the resources for cybersecurity self-defense.

University-based cybersecurity clinics provide *pro bono* assistance to resource-strapped organizations like non-profits, small businesses, local government, and other organizations

Serving our local communities

Cyber clinics students work with local and regional organizations, (e.g. Hampton Roads) bringing cyber talent where it is needed in their own backyards. Participating in clinics embeds the value of public service in future cybersecurity leaders.

Source: https://cybersecurityclinics.org

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What: The COVA CCI Cybersecurity Internship Clinic model

Stakeholders

ODU Faculty

COVA CCI

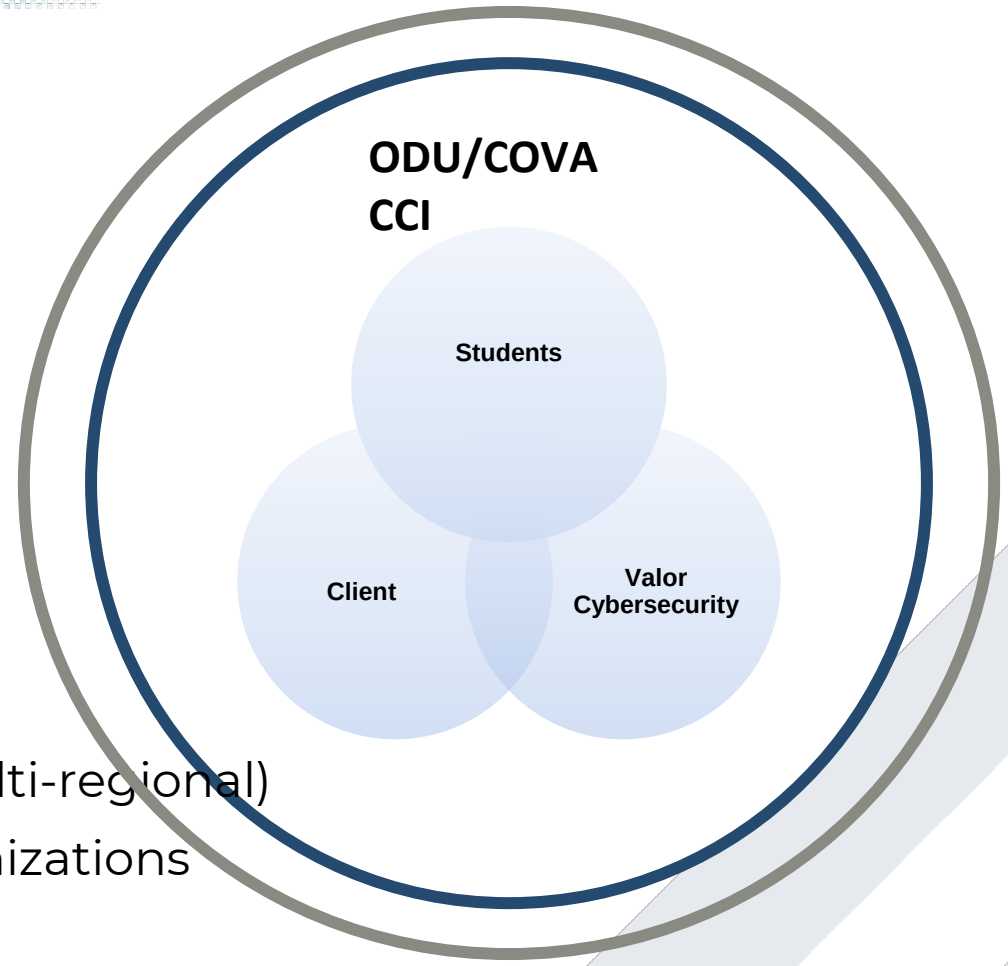
Businesses

Local Government

Academic institutions

Senior leadership (multi-regional)

Military/defense organizations



ODU/COVA CCI manages the cybersecurity clinic and provides all support to the program as needed.

Students: upper-level undergrad students in COVA CCI institutions

Client: the organization – small business, local government agency/office, non-profit organization

Valor Cybersecurity: Lead partner. Provide training and resources for the students to use during each 15 week cybersecurity clinic

Fall 2024

Three micro businesses plus the City of Suffolk, VA (government)
14 ODU students (Junior/Senior)
Clinic includes Design thinking modules
CISA – Vulnerability Management Assessment Training - Partner and CEO, VALOR Cybersecurity

- City of Suffolk

TRS Productions

We Insure Things

Youth Volunteer Corps of Hampton Roads

Draft snapshot of course outline

DRAFT ODU CYSE 328 Cyber Internship Clinic (CIC)

Fall 2024 Course Content Outline:

Tues/Thurs 1:30 – 2:45, unless otherwise modified by the instructor.

Room MH-2107 Cyber Clinic

	27 Aug Tues, Welcome. Introduction Module 1 Introduction COVA CCI Cybersecurity Internship Clinic and Cyber Risk Management
Week 1:	29 Aug Thurs – Team leads assigned, template provided and discussed
	Cyber Risk Management (NIST)
	(**Discussion board** –- due by Sunday, 1 Sept 11:59pm)
Week 2:	3 Sept -Tues– Meet with **Karen Sanzo**, Design Thinking #1
	5 Sept Thurs – Meet with **Karen Sanzo**, Design Thinking #2
Week 3	Sign up for AFCEA luncheon (17 Sept), if attending
	10 Sept Tues – Meet with **Karen Sanzo**, Design Thinking #3
	12 Sept Thurs – Meet with **Karen Sanzo**, Design Thinking #4
	Submit 1st reflection
	17 Sept Tues – **CISA - David Price IT Cyber specialist CSD Vulnerability Management/Cyber Resilience**
Week 4	19 Sept Thurs – exercise of Critical Infrastructure, Due by Sunday, 15 Sept 11:59 pm
	24 Sept Tues –- Meet with **Greg Tomchick (Assessment Training)** Partner & CEO | Valor Cybersecurity
Week 5	26 Sept Thurs – Meet with **Greg Tomchick (Assessment Training)**

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OLD DOMINION UNIVERSITY
School of Cybersecurity

Cybersecurity Internship Clinic

We are looking for small businesses, non-profits, or other organizations who need help understanding their cybersecurity risks.

COVA CCI, the southeastern node of Virginia's Commonwealth Cyber Initiative, in partnership with Valor Cybersecurity will use teams of selected students to provide pro bono Cybersecurity-as-a-Service to small and medium businesses to assess these organizations cybersecurity preparedness and risk posture.

If interested in applying for this program submit an application using this QR code.

Why Apply?

Free cybersecurity risk assessment to your business.

Gives hands-on, real-world experience to students pursuing a career in cybersecurity.

Creates connections with cybersecurity professionals.

Send questions to:
Covacci@odu.edu

VALOR CYBERSECURITY

Commonwealth Cyber Initiative
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OLD DOMINION UNIVERSITY
School of Cybersecurity

Cybersecurity Internship Clinic

We are looking for students who are interested in assisting small businesses in protecting themselves from cybersecurity risks.

COVA CCI, the southeastern node of Virginia's Commonwealth Cyber Initiative, in partnership with Valor Cybersecurity will use teams of selected students to provide pro bono Cybersecurity-as-a-Service to small and medium businesses to assess these organizations cybersecurity preparedness and risk posture.

Why Apply?

Get paid for your work. $2250 for the semester

Create connections with cybersecurity professionals.

Provide free cybersecurity risk assessment to business clients

Get real-world, hands-on experience as a cybersecurity consultant

Learn teamwork, communications skills, sales, and other soft skills.

Enroll in special session of CYSE 368, T/TR, 1:30-2:45

If interested in applying for this program submit an application using this QR code.

Covacci@odu.edu

For more information or questions use this email.

VALOR CYBERSECURITY

Business Client Testimonials

Beth Vinson, Business Client, Cybersecurity Internship Clinic

"As one of the first two small business participants in the incubation stage/pilot program of the COVA CCI Cybersecurity Internship Clinic, my first word after completion was FABULOUS! I was so impressed with the young people of ODU involved in this effort, and the massive benefit they provided for my small business was invaluable. The students were super professional, incredibly knowledgeable about all things Cybersecurity, and taught me so many things with their intuitive research and ability to deliver the best information available.

Gwen Moss, Business Client, Cybersecurity Internship Clinic

"I highly recommend the Cybersecurity Internship Clinic. It was a hassle-free experience that gave me a detailed assessment I can use now and later in the future as we grow as a ministry. With bad actors constantly trying to compromise our digital footprint, I believe if you gain one more piece of information to protect your business is time well spent. Additionally, the experience you afford student interns is gratifying!"

https://covacci.org/cyber-as-a-service/

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Cyber Clinic Student Testimonials

Lee Acheampong, BS Cybersecurity

“My main take away from this internship would be the incredible hands-on experience that I gained from this opportunity. The ability to expand my knowledge and expertise from this program will help me as I move forward in my career. It allowed me to create new connections and taught me so much about the ever-changing landscape of cybersecurity. This internship will absolutely have an influence on my future career and prospects because it serves as a foundational experience that I can build on as I grow through my career. I am truly grateful for the experience to be a part of such an enriching and educational program. I will truly never forget it.”

Heliene Macaraeg, BS Cybersecurity

“My internship experience was incredibly enriching and impactful. It reinforced the importance of teamwork, resilience, and effective communication in a professional setting. Moving forward, I will carry forward the lessons learned from this experience throughout my remaining time at ODU and into my future professional endeavors. It has provided me with a solid foundation upon which to build my career and has instilled in me a sense of confidence and purpose that will guide me in all my future endeavors.”

Daniel Smeltz, BS Cybersecurity

“I believe this internship pilot was an incredible opportunity for students to foster a better understanding on the process of creating a risk analysis. This is paralleled with conducting research to find secure methods to safeguard a business from the potential threats and vulnerabilities and delivering it in a platform that best conveys the solutions prospected to a client.”

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Cyber Clinic Testimonial from ODU Faculty

Teresa Duvall, School of Cybersecurity Professor, Cybersecurity Internship Clinic leader

"The Coastal Virginia Commonwealth Initiative pilot Cybersecurity Internship clinic was a resounding success. We focused on the cybersecurity needs of the client. The students were exposed to Design thinking, first-hand briefs from the CISA Vulnerability Management/Cyber Resilience's expert, assessment training and cyber interview training under the expertise of and partnership with a CIO of a well-respected cybersecurity company – all in 15 weeks.

The pilot clinic provided experiential learning for the students. I watched the growth of each student in confidence, presentations skills, independent research and team research. I witnessed each client express their joy and appreciation at the conclusion of the student in-person briefs and presentations. "

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https://covacci.org/cyber-as-a-service/

Points of Contact

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COVA CCI Website
www.covacci.org

CCI Website
www.cyberinitiative.org

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