

# OCCoE Support Materials

Professor Birol Yeşilada, Director

Professor Reza Rejaie, Associate Director

Associate Professor Rakesh Bobba, Associate Director

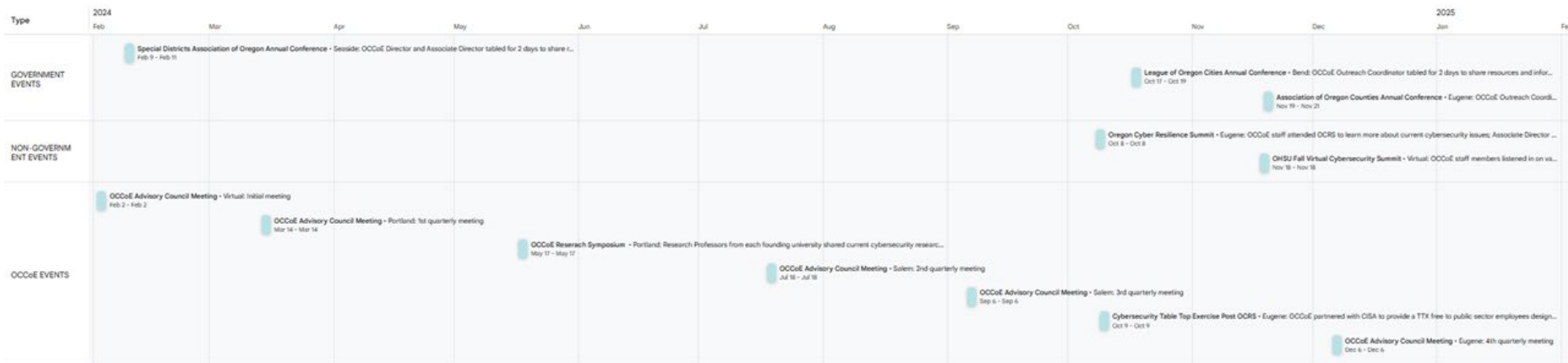
Mr. Oliver Grant, Finance and Operations Manager

February 28<sup>th</sup>, 2025



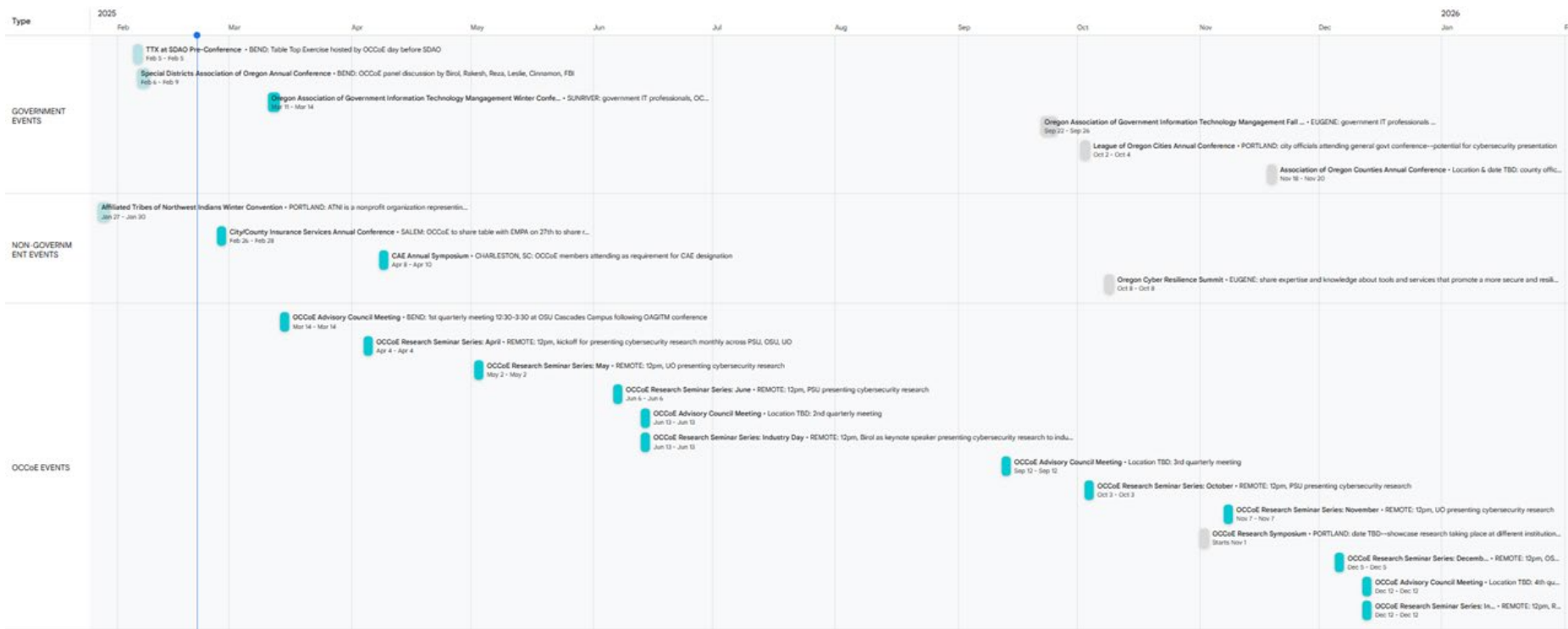


# OCCoE Events Timeline 2024





# OCCoE Events Timeline 2025



# Cybersecurity Certification Scholarship Fund

## via MHCC



Total allocation \$350,000

Established to help students pay for cybersecurity certification exams often required for cybersecurity jobs

- OCCOE is working with Mt. Hood Community College to manage and disburse the scholarship funds
- Currently projected to support **1,476 student vouchers**
- Supporting students from **9 different community colleges**
  - MHCC, Clackamas CC, Central Oregon CC, Chemeketa CC, PCC, Klamath Falls CC, Umpqua CC, Lane County CC, and Treasure Valley CC.
  - To date CompTIA certificates comprise **100%** of the total vouchers purchased

# Workforce Development: NW Cyber Camp



Allocation: \$375,000 (for 2-years 2024-2025)

Funding paid for the Senior Program Manager, logistics, facilities, and materials supplemented by external grants from the National Security Agency's GenCyber Program

## Summer 2024

- **7 locations** – PCC, OIT, UO, Clackamas, MHCC, Chemeketa, OSU
- **9 camps** -- Girl focused camps at PCC and MHCC in addition to Co-Ed camps at the 7 locations
- **Total 147 students** --- 99 boys and 47 girls (32% above workforce average)
  - 47% White, 38% Asian, 2% Black, Multi-racial 2% and other 4%
  - Hispanic/Latino – 22%; Non-Hispanic 78%
  - Above based on responses from 98 students.
- October Cyber Conference/Career Fair & December statewide Capture-the-Flag (CTF) event
- **External Funding Received: 3 camps funded by NSA GenCyber (~\$200K)**

## Summer 2025

- Working to expand to central and eastern Oregon, and Tribal communities.
- Coalition model pioneered by Oregon team in 2024 has become a requirement for NSA/NSF GenCyber Applications.
- External Funding Received from NSA GenCyber program (\$552,000) for 11 camps
  - 10 student camps at five campuses in Bend, Corvallis, Eugene, Klamath Falls and Portland for 170 students
  - 1 teacher camp for 15 teachers
- Additional Cyber Camps planned on four community college campuses:
  - Chemeketa, Clackamas, Mt. Hood and Portland CC-Sylvania

# NW Cyber Camp Spring 2025



## NWCC Senior Program Manager Activities

- Attending Department of Education's Quarterly Meetings for high school Computer Science teachers
- OCCoE/NWCC K12 Educator Mailing List in development
- Hosted online Capture The Flag competition for 2024 Cyber Campers and invited additional Oregon students to play, including:
  - Hermiston HS
  - Hillsboro HS
  - Southridge HS (Beaverton)
- Submitted proposal to present "*Paths to Cybersecurity Careers*" at regional conference for independent and public school counselors who guide youth through college applications

# NWCC Opportunities in K12 Cybersecurity Education



## CAREER TECH EDUCATION (CTE)

### ODE-approved Programs of Study in CTE related to Technology/Computer Science

Information and Communication Technology (ICT) Career Cluster includes a general program and 3 optional Focus Areas. Schools design their Program of Study and may opt to choose a Focus Area. ODE data for 2024-25:

- *Information Tech, Networks, & Cybersecurity* = 1 school
- *Web & Digital Communications* = 8 schools)
- *Computer Programming and Coding* = 24 schools
- *Information & Communications Technology, general* = 44 schools

**Opportunity:** Help schools with a general Program add a Cybersecurity focus through educator professional development and curriculum resources

## College Board Advanced Placement (AP) Program

Five Oregon schools selected to pilot new AP Career Kickstart classes in 2025-26:

*AP Cybersecurity 1: Networking Fundamentals* and/or *AP Cybersecurity 2: Cybersecurity Fundamentals*

- Portland Public Schools: McDaniel HS & Franklin HS
- Corvallis SD 509J: Corvallis HS
- Centennial SD 28J: Centennial HS
- Salem-Keizer SD 24J: Sprague HS

**Opportunity:** Provide pilot schools with industry connections and introductions to post-secondary programs in Oregon

# NWCC Opportunities in K12 Cybersecurity Education



## International Baccalaureate Programme (IB)

Significant change in February 2025, new two-year course to be implemented in fall 2025.

The content of the course has been revised to ensure that the focus is computer science and not information technology and will now be regarded as a science, alongside biology, chemistry, physics, and health science. The Diploma Programme in computer science course will be organized into two key themes: A) how computing systems work and B) how we can use computing systems to solve real-world problems.

Students who complete International Baccalaureate exams may earn credits or advanced standing at their future college and are well-poised for success in higher education.

**Opportunity:** Forge strong relationships with IB CS teachers and provide their students with cybersecurity career exploration opportunities with industry and post-secondary institutions.



# WFD Programs: Undergraduate and Graduate



## UO BS degree in Cybersecurity (started Fall 2023)

Allocation \$425,000

- No. of students declaring Cybersecurity Major: 36
- No. of students introduced to cybersecurity across all majors since Fall 2023: 400+
- No. of applicants to Cybersecurity major in Fall 2024: 250

## OSU Cybersecurity Teaching Hospital (ORTSOC) Practicum Training

Allocation \$1 million

- No. of students in Training: 35+ (for AY 2024-25)
- No. of students trained since Fall 2022: 57
- ~50% growth in UG students from last year

## OSU BS Cybersecurity Degree Option (started Fall 2023)

- No. of current students in Cybersecurity Degree Option: 394



# Externally funded programs

## PSU Graduate Certificate in Cybersecurity & Security Track in Masters Degree

- Graduate Certificate in Cybersecurity
- Security Track in Computer Science Masters Program
- Interdisciplinary BS and Graduate degree program in development

## PSU Cyber Resilience Certification Program (*Federal Congressional Earmark, \$400,000 for 2024-2025*)

- Congressional Directed Spending program covers the funding not allocated in the OCCoE Budget
- Target at local govt. and public entity employees
- No. of students served since 2022: **41 Certificates Distributed; 94 Applicants** (2025 in progress)
- **Doubled** the # of applicants from 2022 (9) to 2023 (19), and **doubled again** from 2024 (19) to 2025 (50).



# Outreach, Partnerships, Advisory, & Collaboration (continuous)

## Collaboration:

- a. Oregon Governor's Office
- b. Oregon Legislature - Joint Legislative Committee on Information Management and Technology
- c. State of Oregon CISO
- d. Oregon Titan Fusion Center
- e. League of Oregon Cities (LOC)
- f. Association of Oregon Counties (AOC)
- g. Special Districts Association of Oregon (SDAO)

## Partnerships:

- a. Industry partners (FORTINET, Deloitte, CISCO, SentinelOne, EC-Council, HP, Curtis-Wright, HiddenLayer, Ripple, SOLV, BSI, ISACA, Trellix, Netscope, Galois, SOLV Energy, Eclypsium).  
*And growing!*
- b. CISA, FBI, NSA, DHS, US CyberCommand.
- c. LinkOregon

## Outreach:

Conferences and Symposiums, Public Schools, Community Colleges, Universities.