

Tennessee Tech University and the Cybersecurity Education, Research and Outreach Center (CEROC) are...







# Taking Cyber to the K12 Road

Tennessee Tech's Cyber Road Trip

Community Symposium

# 2024 CAE

## Eight Years of GenCyber Experiences

Tennessee Tech and CEROC have conducted various GenCyber camps from 2016 onward.

- Component of Tennessee Governor's School for Emerging Technologies
- Week-long combination day camp (students, teachers, and counselors)
- Week-long student and combination residential camp with remote STEMobile deployments at participating schools
- GenCyber lessons conducted in support of related camps at Tennessee Tech
- GenCyber Day events connected to major conferences (WiCyS, NICE K12)
- And now, the next-generation camp experience



2024

CAE

# Golden Eagle Cyber Certificate Dual Enrollment Program

and

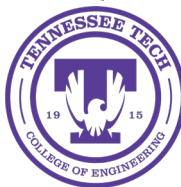
# Tennessee GenCyber on Wheels

A Holistic Cyber Engagement Approach

Community Symposium

# 2024 CAE Golden Eagle Cyber Certificate Dual Enrollment Program

- Piloted in 2022 the Golden Eagle Cyber Certificate Dual Enrollment Program provides a “pick 3 of X” course catalog for K12 students in the state of Tennessee.
- Students completing 3 EPSOs before graduation receive a certificate of recognition and challenge coin.
- EPSOs contribute to students via the Tennessee Honors Diploma and Tennessee Scholars Diploma.
- EPSOs contribute to TN school districts by improving their Ready Graduate district metrics
- The program is designed for students to find cyber **in their area of interest... not just computer science.**
- Courses include:
  - Principles of Computing (intro programming in Python)
  - Intro to Cyber and Privacy
  - Intro to Sociology (cyber edition)
  - Intro to American Government (cyber edition)
  - Intro to AI/ML (launching Spring 2025)



# 2024 CAE Tennessee GenCyber on Wheels

- Tennessee GenCyber on Wheels is our next-generation cybersecurity camp that focuses on larger audiences and shorter engagements.
- These three-day engagements include
  - GenCyber lessons aboard the mobile classroom for all grade levels at the host school (and surrounding schools where transportation is available)
  - Grade-level presentations involving timely topics including digital citizenship, cyber safety, and career futures
  - Professional development programs for teachers and school counselors
  - Community presentations for parent organizations
  - Standards-aligned lesson plans left with the teachers to use throughout the year and compatible with current mathematics, ELA, natural sciences, and social sciences courses
- A Teacher's Road Diary

2024 CAE

## Next Steps

- Conduct a retrospective on Spring 2024 TGoW deployments
- Create more K12 lesson plans, review current plans, and submit mobile classroom items to the repository
- Create a storybook???
- Complete work with the Education Pathway National Center to become an EPI in Tennessee

2024 CAE

# Questions?

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