

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

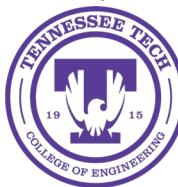
Tennessee GenCyber on Wheels

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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