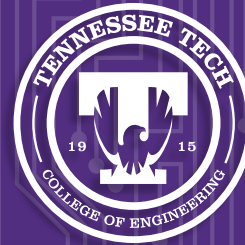




CYBERSECURITY EDUCATION,
RESEARCH AND OUTREACH CENTER



GROW YOUR CYBER KNOWLEDGE AND EARN DUAL CREDIT

This is your opportunity to earn the Golden Eagle Cyber Certificate, learn where the future of cybersecurity is headed and get a jump-start on your future!



tntech.edu/ceroc/education/gecc

CONSIDER THIS:

- Curious about cybersecurity?
- Earn up to nine hours of undergraduate college credit.
- Get dual enrollment access to college coursework that will transfer to any state-funded post-secondary school in Tennessee.
- Get fast-track access to CEROC events and camps.
- Explore cyber as seen across multiple disciplines.
- Earn a high-profile contribution to your resume.
- Start your journey as a Golden Eagle with the Golden Eagle Cyber Certificate!
- This three-course (nine credit hour) program introduces high school students to foundational cybersecurity-related topics and thought processes.
- For any student with a natural curiosity for STEM, this is the program for you. It is intended to provide a cybersecurity foundation for all interested students, not just those seeking a career in cybersecurity or computing, thus a cybersecurity or computer science background is not required.
- Each course in the program is designed to contribute to the program objectives of a two or four-year higher education for any major, either as major-specific, general education or elective credits, rather than focusing on an industry certification.

COURSES

The current program will focus on the following three courses offered by Tennessee Tech University. Additional courses will be added in later semesters.

Principles of Computing

CSC 1200 | Lec. 3 | Credit 3

This course introduces the field of computer science. Topics include computing as a creative activity, abstraction, data and information, algorithms, programming, the Internet and global impacts of computing.

Introduction to Cybersecurity and Privacy

CSC 2570 | Lec. 3 | Credit 3

Introduction to fundamental principles, common attacks, and defense mechanisms in the area of cybersecurity and privacy. Students will be introduced to fundamental concepts and building blocks of computers with cyber defense elements including security objectives, attack types, adversary models, policies and models, threat modeling along with anonymity, cyber security ethics and legal issues. This is an introductory level course for students interested in cybersecurity.

American Government- cyber edition

POLS 1030 | Lec. 3 | Credit 3

This course teaches students American government from a non-partisan perspective and fulfills the State of Tennessee's requirements for a general education social/behavioral science (3) hour credit option. Additionally, the class introduces students to the specific impact, including a predicted global cost of over 24 trillion dollars by 2027, of cybercrime on individuals, the United States and the world.

Introduction to Sociology - cyber section

SOC 1010 | Lec. 3 | Credit 3

Fundamental concepts and basic principles underlying human social relations including a review of cybersecurity implications. This course is open to any major and will count towards general education credit.

All courses are offered online via Tennessee Tech learning platforms, taught by Tennessee Tech faculty members and fit any student's schedule (during a class period or evenings). Students only need access to an Internet-enabled computer.

If this sounds interesting to you, contact your school's guidance counselor for more information. Grant funding is available for eligible students!

Complete information, including required forms about the program, can be found at tntech.edu/ceroc/education/gecc/.



USEFUL LINKS

Tennessee Tech Dual Enrollment

tntech.edu/DualEnrollment



Golden Eagle Cyber Certificate Program

tntech.edu/ceroc/education/gecc



For more information about the program, email ceroc@tntech.edu with a subject line of "Golden Eagle Cyber Certificate Program". A member of staff will be in contact within three business days.