



Cybersecurity Program of Study

Prepare for your future in computer maintenance, cybersecurity and networking through practical coursework and workplace experiences.

RECOMMENDED COURSE SEQUENCE

1 Principles of Information Technology (1 credit) (9th – 10th Grade)

Develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Explore a variety of careers in IT, such as Computer Technician, Software Engineer, and Network Administrator.



2 Networking Security and Lab (HCTC) (2 credits) (10th – 11th Grade)

Continue the study of networking technologies in a high-tech learning environment that provides students the knowledge and experience to enter the workforce and/or further their education and training to prepare for industry certifications.



3 Foundations of Cybersecurity Capstone (HCTC) (2 credits) (11th – 12th Grade)

Students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.

For more information about CTE Course requirements, view our EMS ISD Course Description Handbook.

**Indicates a TEA approved Advanced CTE Course*

