

# AHS Cybersecurity Program

## **Fundamentals of Cybersecurity (9-12) - 7015.R000.Y**

Students develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity by examining trends and operations of cyberattacks, threats, and vulnerabilities. The skills obtained in this course prepare students for additional study in cybersecurity.

## **Computer Science 1 (9-12) – 7010.HA00.Y**

Computer Science I is designed to foster students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. Data analysis will include the identification of task requirements, planning search strategies and the use of computer science concepts to access, analyze, and evaluate information needed to solve problems.

## **AP Computer Science A (11-12) – 7610.P00M.Y / 7610.P00L/Y**

The AP Computer Science A course is a year-long course designed to help students master the basics of Java and equip them to successfully pass the College Board AP Computer Science A Exam at the end of the school year. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

## **Cybersecurity Capstone (11-12) – 8754.HA00. Y**

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.



Anderson High School



# **CYBER SECURITY**

## **CTE Pathway**

PHISHING | IDENTITY SAFETY  
ONLINE SCAM | SQL INJECTIONS  
CRYPTOGRAPHY | DIGITAL CITIZENSHIP