High School Career and Technical Education

High School Career and Technical Education Courses

Cybersecurity Fundamentals

This course focuses on the evolving and pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity.

This course connects to the following career pathways:

Information Technology - Cybersecurity
Credits 1
Length
Year
Grades
9, 10, 11
Schools
Colgan High School
Patriot High School
Unity Reed High School
Prerequisites
None

Cybersecurity Operations

Cybersecurity Operations is designed to teach computer and network administration and security. Students learn cybersecurity concepts, including the practice of protecting systems, networks, and programs from digital attacks. Cybersecurity is defined as the steps and processes taken to protect networks, devices, programs, and data from unauthorized access that can result in theft or damage. Students learn to establish, implement, and maintain security networks.

This course connects to the following career pathways:

Information Technology - Cybersecurity
Credits 1
Length
Year
Grades
10, 11, 12
Schools
Potomac High School
Unity Reed High School
Prerequisites
Cybersecurity Fundamentals OR

Information Technology (IT) Fundamentals