

NETWORKING WITH CYBER SECURITY

Developing a solid understanding of technology use and integration is an integral part of college and career readiness. With this in mind, Information and Technology advanced computing skills is an engaging, hands-on learning environment centered on the 4 C's of 21st century learning: critical thinking, communication, collaboration and creativity. Information Technology has opened the doors for many new careers that will be explored in these courses.

Networking with Cyber Security 1 - AM

6975 Full Year – 2 Credits
Open to Grade 11 2 Periods Per Day

Year 1 courses include:

- Network Operating Systems
- Routing and Switching

Application required.

Recommended: Algebra 1, Exploring Technology, Introduction to Programming

Networking with Cyber Security 2 – PM

6980 Full Year – 3 Credits
Open to Grade 12 3 Periods Per Day

Year 2 courses include:

- Network Management Systems
- Network Security
- Network/Cisco Capstone (optional 2 additional credits)

Prerequisite: Networking with Cybersecurity 1

Recommended: Algebra 2 with Trig

Designing, installing and maintaining computer networks are skills much in demand. Networking is a two-year college tech prep program that prepares students to take both the Cisco Certified Entry Network Technician (CCENT) exam and the industry-standard, Cisco Certified Network Associate (CCNA) exam. CCENT is an optional first step toward earning the Cisco CCNA certification which is the foundational certification for networking careers. With Cisco System's curriculum and hands-on labs, students learn the latest industry networking standards and technologies, including network design, set-up, hardware maintenance and administration.

In addition to this, an introduction to cybersecurity is given, which are the first steps toward the (CCNA Cyber Ops) exam. Students will become more aware of the importance of being safe online, the potential consequences of cyberattacks, and possible career options in cybersecurity.

Students will have the additional opportunity in the Networking with Cyber Security Capstone course to receive credit for both in-school and/or out of school learning experiences.

College Credit Possible: Student must fulfill requirements of the college.

Certifications: Microsoft Word, Excel, Outlook and PowerPoint

Internship Possibilities (paid or unpaid): Work experience 4th quarter senior year, 15 hours per week in a related occupation.

Career Technical Student Organization: SkillsUSA

Possible Career Opportunities:

- Computer Networking & Enterprise Management
- CISCO Certified Network Associate
- CISCO Channel Partner
- Computer Systems Technician
- Network Operations Center
- Sales Support Engineer
- Network Engineer
- Data Networking Technician

