

**Information Technology / Cyber Security** is a new program starting at Region 10 in school year 2024-'25.

### **Information Technology:**

Would you like to get things done faster and more efficiently? Do you want the skills to succeed in today's technological world? Region 10 is offering two comprehensive programs in the field of technology to prepare students to become highly marketable employees in today's computer world, acquiring skills currently in demand by employers and for success at the college level. Several of the components in these program(s) may lead to industry certifications. Completion of these program(s) earn a Certificate of Completion in Business Information Technology: Computer Technology or Business Technology: Business Technology. Career path possibilities include: Programmer, Software Engineer, Tech. Support Specialist, Video Game Designer, Information Architect, Hardware Specialist, Graphic Designer, Business Manager, Computer Office Assistant.

You **do not** need any prior experience or knowledge about computers to be successful in this class. We will focus on Hardware, Software, Operating Systems, Networking, CyberSecurity, and Databases, as well as Mobile App Development, Microsoft Office 2016 (Word, Excel, and PowerPoint) , and Adobe Creative Cloud (Illustrator, Photoshop, Animator, InDesign, and others). Programming will be done in JavaScript and SQL in the first year. Our focus will be on creating "real world" solutions for our school and community.

Students will have the opportunity to earn CompTIA A+, Microsoft Office Specialist, and Adobe Certified Expert. Emphasis will be placed on developing a broad Technology Based Portfolio which students can use to advance academic and employment careers. And, no modern technology class can be complete without developing creative and critical thinking skills while considering the social and ethical implications of technology. What is the difference between information and data? Can we predict the impact of new technologies? What can my bank/school/hospital do with my personal information? How does the Digital Divide affect economic development? We want to do more than hack away at our keyboards or crimp Cat 6 cables. We want to use our Computer Technology knowledge for good.

### **Cybersecurity:**

This program is an introduction into the exciting world of careers in Cybersecurity.

This program will take you in many directions highlighting roles as an analyst, penetration tester, systems administrator and computer crime investigator. You will learn priceless skills in

this program to help keep you, your family and eventual employer safe on the internet for many years to come. The program will be a constantly evolving experience starting with the basics of security but also studying current and evolving threats facing the real world security landscape. Collaboration and teamwork will be critical to the success of a student in the program.

Students who complete the program can further their education or enter into the workforce as a security consultant, ethical hacker, information security analyst and more.

- Learn the fundamentals of an Information Technology Infrastructure
  - *End User Devices*
  - *Servers*
  - *Network Devices*
- Familiarize yourself different authentication methods
- Focus on the CIA triad of Cyber Security and best practices
  - *Confidentiality*
  - *Integrity*
  - *Availability*
- Hands on practice securing networks of different sizes and scopes
- How to gather evidence and maintain a chain of custody
- CompTIA IT Fundamentals
- CompTIA Security+
- Palo Alto PCCSA