CYBERSECURITY/NETWORKING *Full Year*
Information Technology Education

C TEC

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PROGRAM DESCRIPTION: This program provides exciting opportunities for student professionals in the high-demand and challenging world of Cybersecurity and Digital Forensics. It introduces the technologies used in the field such as computer maintenance, basic networking, and cybersecurity awareness. Students will learn how to troubleshoot and repair various hardware, software, and configuration problems. Students will also practice installing basic computer parts, networking components, and apply security concepts. Further topics include identifying security threats, cryptography, hardening networks, and Ethical Hacking with Kali Linux.

High School Credit: CTE credit or elective credit: up to 4 credits
Industry Certifications: MTA Windows Operating System Fundamentals, MTA Network Fundamentals, MTA Security Fundamentals, MTA Window Server Administration Fundamentals, TestOut PC Pro, TestOut Network Pro, and TestOut Security
Recommended: Keyboarding and Foundations of Technology

COURSE DESCRIPTIONS:

Computer Repair & Maintenance: Enhance your technological and troubleshooting skills by building, maintaining and repairing the personal computer. Combine targeted computer repair training with industry expertise and certifications.

Networking: Enhance your training by designing and building network systems. This course covers essentials for a network engineer to survive and excel in this rapidly growing industry.
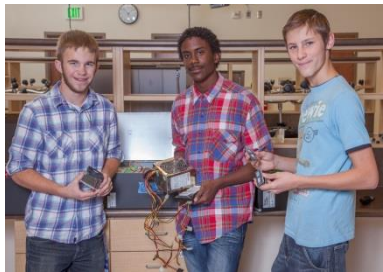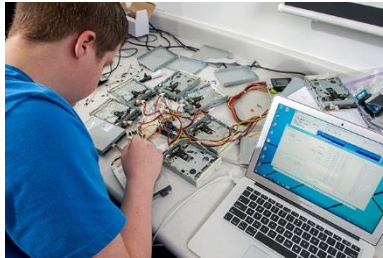
Cyber Security and Cyber Forensics: Continue adding value for future employers with this course covering core security and forensics technologies. Learn to design and build security systems, how to monitor and prevent security leaks, and maintain data and device confidentiality, integrity, and availability.

Costs/Fees for the 2020-2021 school year: Pending school board approval.

Career Possibilities:

PC Help Desk Technician

Computer Forensics Investigator

Network Administrator

Information Security Specialist

Cybersecurity Analyst

Cyber Threat Intelligence Analyst

Field Technician

Security Vulnerability Engineer

Wireless Networking Technician

Gaming PC Designer

"I graduated valedictorian from Neumont University in March 2014, receiving my computer science degree. Shortly before I graduated, I began working part-time for AtTask in Lehi, Utah. I accepted a full time offer there following graduation. I've been working as a Developer Operations (DevOps) engineer.
The programming, hardware, and networking knowledge I picked up at CTEC has been a huge boon. The knowledge of hardware and networking has given me an advantage over the average developer. Recently, a coworker and I have been building out a new cloud to host hundreds of virtual machines for distributed builds and tests. I've spent the past months working on the network, configuring virtual machines, and writing the code to glue it all together".
Josh Bloom, class of 2011

"Right now, I am stationed with 2-11 field artillery in the 25th infantry division in Hawaii. My job here in the artillery world is based on a program called AFATADS (advanced field artillery data system) in which entire brigades need to be connected over LAN in order to communicate properly. The program was created by Raytheon in order to allow operators to place certain parameters on a live map to be shared among different units (No fire zones, friendly units, and so forth) and also enables the operator to submit fire missions and put artillery where it needs to be. My experience with networking and information technology has given me the jump on understanding how this works, and I'm already an asset to my team". Pv2 David Butler III, class of 2012