

# ICT - Information Support and Services



CHICO HIGH SCHOOL

## Career and Technical Education Course Sequence

Computers,  
Components & the  
Networking of Things



Cybersecurity &  
Networking

## Course Descriptions

### Computers, Components & the Networking of Things

*\* Optional PC Pro Certification \* Butte College Credit \* UC A-G "G"\**

This class prepares students to pass the equivalent of a CompTIA A+ certification. Throughout the year students will learn computer terms, components, troubleshooting skills and systems of the Internet of Things (IoT). This class covers computer **operating system installation, diagnostics and step-by-step instruction on installation, maintenance, optimizing system performance, troubleshooting and integrating devices** in their life. By the end of the semester, students also learn how to **build a computer** from off the shelf components.

### Cybersecurity and Networking

*\*Optional Cyber Security, Networking and Linux Industry Certification \*  
\* Butte College Credit \* UC A-G "G"\**

**Prerequisite:** Computers, Components & Networking of Things or instructor permission.

This class prepares students to excel within a computer network environment. Students learn how **network operating systems from Microsoft, Apple and Linux are configured**. There will be an opportunity to **configure, diagnose and troubleshoot a live network laboratory**. Certifications obtained from this Pathway will enable students to be immediately employed in high demand jobs of **User Support Specialist**. With additional certifications, come greater opportunities.

### Other Opportunities

**SkillsUSA:** A national Student Leadership Organization that offers opportunities to compete in relevant contests in regional, state & national events and develop leadership skills

**MESA:** Math Engineering Science Achievement is a national organization who's goal is to promote opportunities for non-traditional and underserved population in STEM.

**SWE:** The Society of Women Engineers - SWENext provides a variety of quality programs, resources, and access to engineers to empower students to prepare for engineering and technology careers.

**Computer Science Club:** Group of student who meet to talk about current events in computer science, teach each other relevant skills and compete in competitions

**Panther Robotics:** Members compete in the VEX Robotics Competition (VRC) and the Remote Aerial Drone Competition (RAD) in a unique yearly challenge.

**IT Council:** Student leadership opportunities within various CHS IT pathways



### LOCAL POST-SECONDARY OPTIONS:

#### Butte College

- A.S. in Computer Science
- A.S. in Computer Systems Administration
- Cert in Cisco Networking Administration
- Cert in Microsoft Server Administration

#### CSU, Chico

- B.S. in Computer Science
- B.S. in Computer Information Systems
- B.S. in Computer Engineering

### HIGHLIGHTED CAREERS:

- Client/Server Specialist
- Database Administrator
- Security Administrator/Officer
- Quality Assurance Specialist
- Disaster Recovery Specialist
- Application Development Specialist
- Data Warehousing Specialist
- Hardware/Software Specialist
- Network Engineering Specialist
- Computer Repair Technician

### Contact:

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Career and Technical  
Student Organization:



Note: these templates are designed to help guide students. The order of some classes may vary and individual variation can be applied.