



# Information & Communication Technologies

## For Students Interested In ...

Preparing for a career in networking.

Learning how to apply skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software.



## Our Classes



[www.tvrop.org](http://www.tvrop.org)

## IT Essentials (Cybersecurity: ICT Essentials)

This class provides an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot problems. An introduction to computer networking is included.

**Course Length:**  
1 Year/1 Period  
**High School Credits:** 10

## Internet Engineering I (CCNA1)

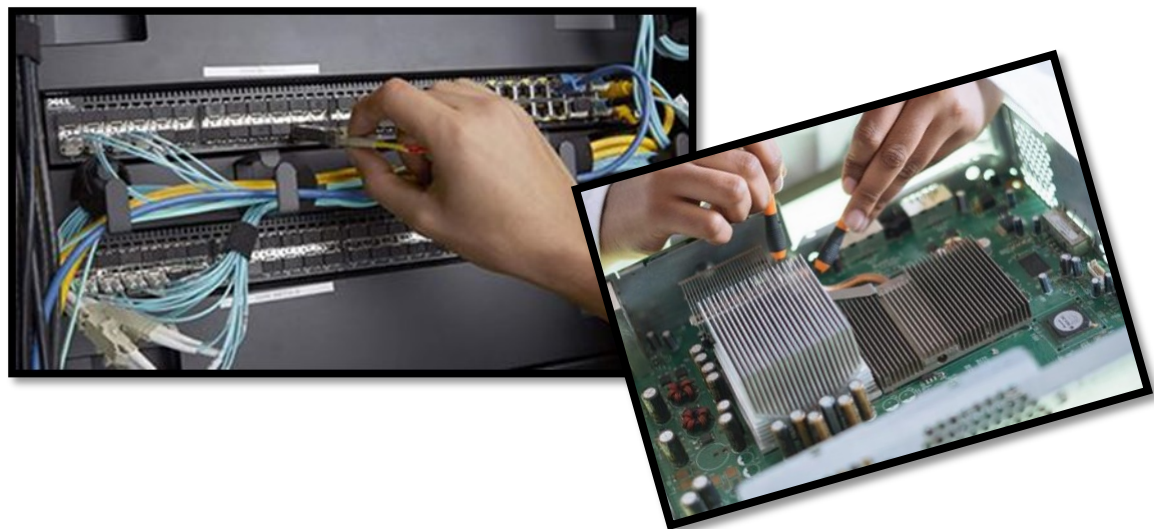
Internet Engineering I is an interdisciplinary course designed to prepare students for post-secondary success in the Information and Communication Technologies (ICT) field. The course engages students with studies of: the history and implications of network communications, the protocols which make the internet possible, how networks provide access to services and college and career preparation in the ICT field. CCNA Routing and Switching curriculum is a gateway to entry-level networking jobs and IT Careers .

**Course Length:**  
1 Year/1 Period  
**High School Credits:** 10

## Internet Engineering II (CCNA2)

Internet Engineering II is a follow-up course to Internet Engineering I. It is designed to prepare students for post-secondary success in the Information and Communication Technologies (ICT) field. The course engages students with studies of the network protocols which make the Internet possible; how networks communicate with one another; methods used to increase scalability, reliability, and security in the modern network; and college and career preparation in the ICT field.

**Course Length:**  
1 Year/1 Period  
**High School Credits:** 10



# Information & Communication Technologies



**IT Essentials**  
(Cybersecurity: ICT Essentials)



**Internet Engineering I**  
(CCNA1)



**Internet Engineering II**  
(CCNA2)



***UC a-g eligible \* Articulated College Units \* Earn Certifications***



**Tri-Valley Regional Occupational Program**

*“Careers by Choice, Not by Chance”*