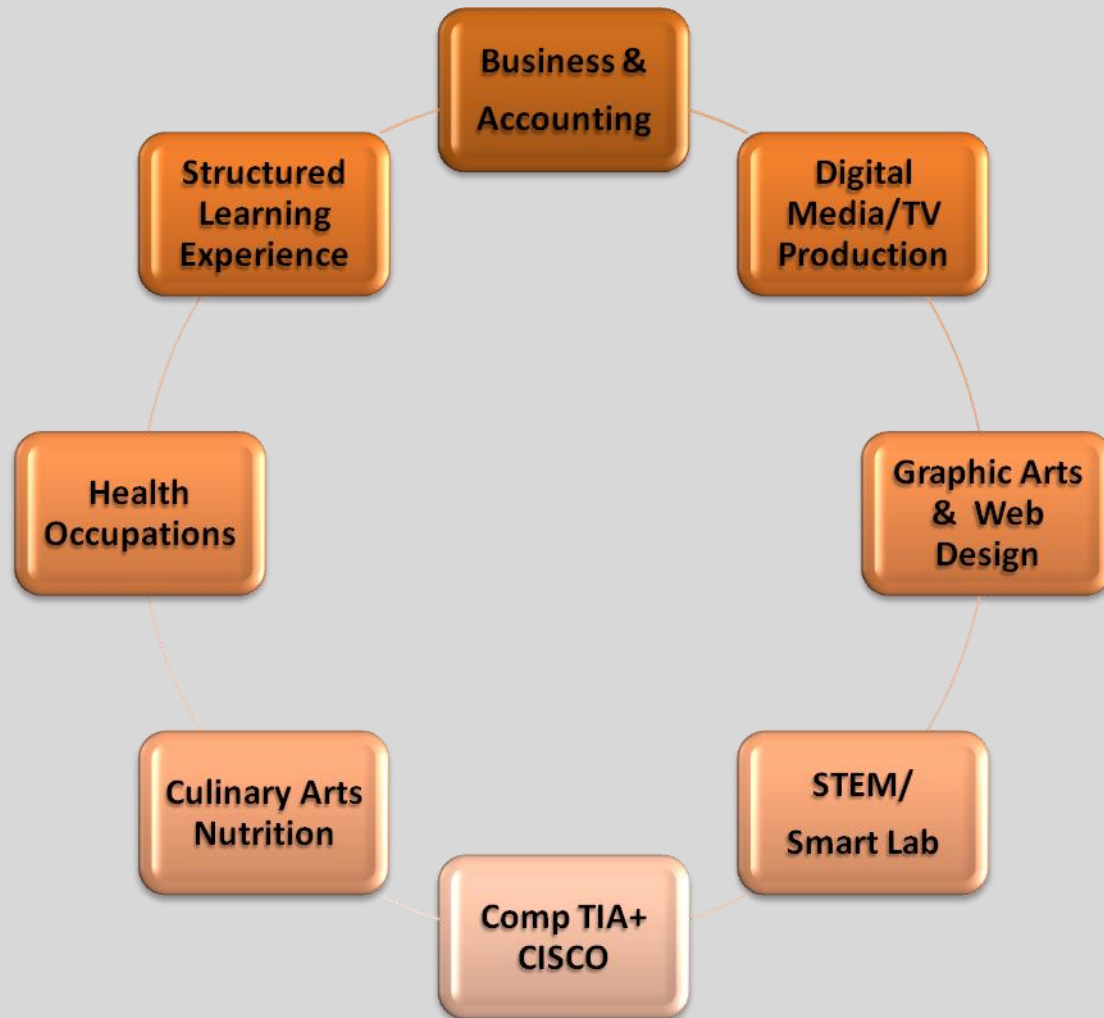


# Orange High School CTE

## Career and Technical Education

400 Lincoln Avenue, Orange NJ 07050 973-677-4050



### *Career and Technical Education Department*

*Courses offered within Career and Technical Education Department are geared to provide students with the skills, knowledge, and work habits necessary to thrive in the worlds of business, health careers, and multimedia ventures. Students will have the opportunity to explore careers associated within the fields of business and health occupations, as well as benefit from practical, real-world preparation designed to enhance students' marketability and career readiness. Although the focus is primarily on preparation for college or a career in related careers and industries; the skills acquired will also help prepare students for any field they may choose to enter.*

*As a CTE student you have the opportunity to participate in hands-on training in your chosen program and gain real world experience through job shadows and internships.*

*Mr. Gaines, Principal*

*Mr. Belton, Principal*

# Cisco / CompTia A+

## Orange High School CTE

### Career and Technical Education

Cisco Instructor: Ederson Jean  
400 Lincoln Avenue, Orange NJ 07050 973-677-4050

#### *Cisco Net I*

##### **Introduction to Networks**

Introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

#### *Cisco Net II*

##### **Scaling Networks & Connecting Networks**

Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network.

#### *CompTia A+*

##### **Course Description**

The Cisco IT Essentials (ITE) curriculum offers a hands-on, career-oriented learning experience with an emphasis on practical activities to help students develop fundamental computer and career skills. IT Essentials helps students prepare for entry-level IT career opportunities and the CompTIA A+ certification, which helps students differentiate themselves in the marketplace and advance their careers.

Some examples of working environments and jobs that may be available to students after completing this course are:

- A corporate or mobile environment with a high level of face-to-face client interaction. Job titles include enterprise technician, IT administrator, field service technician, and PC technician.
- A remote-based work environment that emphasizes client interaction, client training, operating systems, and connectivity issues. Job titles include remote support technician, help desk technician or IT specialist.



#### **Features and Benefits**

The CCNA Routing and Switching curriculum offers the following features and benefits:

Students learn the basics of routing, switching, and advanced technologies to prepare for the CCENT and CCNA certification exams, networking related degree programs, and entry-level careers.

The language used to describe networking concepts is designed to be easily understood by learners at all levels and embedded interactive activities help reinforce comprehension.