**📘 Course Description: CompTIA Test+**

The **CompTIA Test+ Certification Course** is the starting point of the Computer System Technology (CST) certification pathway at Piscataway Magnet School. Designed for **9th grade CST students**, this course introduces the essential concepts of information technology and prepares students for the **CompTIA Test+ certification exam**.

Students will explore the foundations of IT, including hardware, software, networks, cybersecurity, databases, and basic programming. The course emphasizes hands-on activities, IT vocabulary, and troubleshooting skills. By the end of the year, students will be ready to attempt the **CompTIA Test+ exam**, an industry-recognized certification that validates entry-level IT knowledge.

This certification sets the stage for success in the CST pathway, where students progress to more advanced certifications such as **CompTIA A+ (Core 1 & Core 2)** in 10th and 11th grade.

**📑 Course Syllabus: CompTIA Test+ (9th Grade – CST Pathway)**

**Course Instructor:** Ms. Geeta Chadha
**Location:** Piscataway Magnet High School – Computer System Technology Lab
**Grade Level:** 9th Grade CST Majors
**Course Length:** Full Year

**🎯 Course Objectives**

By the end of this course, students will be able to:

* Demonstrate foundational knowledge of **computer systems**.
* Explain the role of **hardware, software, and operating systems**.
* Identify and apply **basic networking and security principles**.
* Solve entry-level IT problems using **troubleshooting strategies**.
* Recognize the basics of **databases and programming concepts**.
* Prepare for and practice taking the **CompTIA Test+ certification exam**.

**📂 Units of Study**

1. **Technology Concepts & Terminology** – IT basics, troubleshooting, and key vocabulary.
2. **Hardware & Infrastructure** – Computer components, storage, peripherals, and installation.
3. **Applications & Operating Systems** – Understanding software and system management.
4. **Software Development** – Introduction to programming logic and coding languages.
5. **Databases** – Purpose, structure, and real-world applications.
6. **Security Essentials** – Authentication, threats, and best practices for safe computing.

**📅 Certification Pathway**

* **9th Grade:** CompTIA Test+
* **10th–11th Grade:** CompTIA A+ (Core 1 & Core 2 required)
* **11th–12th Grade:** CompTIA Network+ (and additional certifications as advanced options)

Graduates of this pathway will leave Piscataway Magnet School with **industry-recognized certifications** that prepare them for college programs or entry-level IT careers.

**📌 Classroom Expectations**

* Arrive prepared and ready to learn.
* Respect peers, teachers, and equipment.
* Participate actively in labs and discussions.
* Follow academic honesty and integrity guidelines.
* No cell phones or wireless headphones/earbuds/airpods allowed