**Course Syllabus for Computer Science Foundations**

**Grade Level-** 9-12

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**Course Description:**

Computer Science Foundations is the first of the Computer Science cluster. It is a pre-requisite for Coding 1 and Coding 2.

Computer Science Foundations will cover various forms of computer related items. There will be a study of the hardware, software and various usage of computers in today’s society.

The four main focus areas are:

1. Networking systems Standards: 4,5,6,10,12,13,22,23
2. Coding Standards: 23,33,34,35,36
3. Web Design Standards: 10,11,14,21,24,25,26,27,28
4. Cybersecurity Standards: 13,30,31,32

**Course Objectives:**

At the end of the course students will be able to:

* Read, interpret and adhere to safety rules
* Demonstrate understanding of electrical currents
* Assemble required connections of test equipment
* Distinguish between binary and hexadecimal counting systems
* Research various occupations in information technology industries.
* Understand the history of the internet and its role on society.
* Understand the history and development of operating systems
* Identify, describe and effectively summarize cloud technology
* Explore and identify various computer languages. (i.e. Python, Java, etc.)

**Classroom rules:**

1. All school rules apply.
2. Be on time.
3. No unnecessary trips out of the classroom. Emergencies Only.
4. Cell phones will be parked in the “garage” at the beginning of class every day.
5. Respect of peers and the teacher will be the norm.