**COURSE DESCRIPTION:** Fundamentals of Computing is designed to introduce students to the field of computer science through an exploration of engaging and accessible topics. Through creativity and innovation, students will use critical thinking and problem solving skills to implement projects that are relevant to students’ lives. They will create a variety of computing artifacts while collaborating in teams. Students will gain a fundamental understanding of the history and operation of computers, programming, and web design. Students will also be introduced to computing careers and will examine societal and ethical issues of computing.

**Instructor:** Ms. E. Williams

Room 103

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**OBJECTIVE:** Given the necessary equipment, software, supplies, and facilities, the student will be able to successfully complete the following core standards for courses that grant one unit of credit. Students will participate in TEAM meeting using Microsoft Teams.

**COURSE CREDIT:** 1 unit

**COMPUTER REQUIREMENTS**

One computer per student with Internet access

**Time:** 90 minute semester course

**Resources:**

* Code.org (Computer Science Principles)
* Microsoft Teams
* Schoology
* Email

**Units of Instruction:**

1. SAFETY

B. STUDENT ORGANIZATIONS

C. TECHNOLOGY KNOWLEDGE

D. PERSONAL QUALITIES AND

EMPLOYABILITY SKILLS

E. PROFESSIONAL KNOWLEDGE

F. EVOLUTION OF COMPUTING

G. COMPUTING SYSTEMS

H. PROBLEM SOLVING AND COMPUTATIONAL THINKING (TO BE IMPLEMENTED THROUGHOUT THE

COURSE)

1. FUNDAMENTALS OF PROGRAMMING
2. FUNDAMENTALS OF WEB DESIGN
3. ETHICAL, LEGAL & SOCIAL ISSUES OF COMPUTING
4. L. COMPUTING CAREERS

**Rules and Procedures**

* **RESPECT EVERYONE**
* Stay on task
* Log in immediately
* Think critically
* **RESPECT OTHERS**
* Proper Internet usage
* Do not abuse Internet privileges
* Complete and submit assignments
* No posting negativity or bullying
* **RESPECT OTHERS**
* Dress appropriately
* **RESPECT EVERYONE**
* No cursing, vulgar language or inappropriate gestures, memes
* **RESPECT OTHERS**
* Stay focused
* Mute your microphones until it is time to speak
* **RESPECT OTHERS**
* No plagiarism
* Respect school property/equipment

**GRADING SYSTEM**

* A (90-100)
* B (80-89)
* C (70-79)
* D 60-69)
* F (59 & below)

**Major Assessments of Learning -40% (Summative)**

**Formative Assessments – 30% (Formative)**

**Homework/Classwork/Cooperative Learning/ Bell work- 20% (Formative)**

**Nonfiction Writing/Reading Response Journals -10% (Formative)**

**Parents and Students**

I would like to express my excitement about working with students during the 2021-2022 academic school year. Critical thinking will be emphasized in this course. Also note that if you ever have any questions or concerns, I am available via phone, email or meeting. Thank you for your continued support in educating and empowering students by providing purpose, direction and motivation.