

Intro to Computer Science & Technology

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Room:610

Description of Course:

Introduction to Computer Science and Technology is a one semester course that develops students' abilities to analyze, evaluate, and reflect upon technologies such as computer hardware and software, networking and security. Students will learn the fundamentals of programming, build computational thinking skills, and reflect on the impact of computing on society. **This class is a required class for graduation.**

Units of Study:

1. Cybersecurity
 - a. CS.HS.2 Analyze ethical practices and behaviors of digital citizenship.
 - b. CS.HS.4 Analyze the fundamentals of cybersecurity
2. Cryptography
 - a. CS.HS.5 Apply concepts of computational thinking
3. System Administration
 - a. CS.HS.3 Apply concepts of information technology
4. IT Concepts
 - a. CS.HS.1 Demonstrate and describe best practices of computer literacy.
 - b. CS.HS.3 Apply concepts of information technology
5. IT Infrastructure
 - a. CS.HS.3 Apply concepts of information technology
6. Computer Programming
 - a. CS.HS.6 Implement programming literacy practices to create computational artifacts

Class Materials:

- Charged iPad everyday- we will use them along with the computer daily
- Google Classroom

Daily Classroom Work Procedures:

- Leave bags in the back of the room along the wall
- Lanyards must be worn and visible when entering the classroom
- Be in your seat when the bell rings or you will be counted as tardy
- No food or drinks in the classroom, except for water with a lid.
- We work every day- Login and complete the bell ringer while attendance is being taken

Classroom Rules:

- Respect: yourself, your classmates, your teacher, the school's computer equipment
- Get along with you classmates, ask questions, show interest and pride in your work, have a positive attitude. You will do great!

Late Assignments:

- Any assignment not handed in completed when they are due will be considered late.
- 30% will be subtracted from the grade for any late work- you will have until the end of the unit to turn in late work for 70% of the grade. Work will not be accepted after a new unit as started.
- If you miss class, you will have two days to turn in what was missed without it being counted as late. Assignments will be posted on Google Classroom or CodeHS.com.

Academic Honesty:

Students are expected to work on their own, unless explicitly instructed otherwise. Students who copy from each other or from any other source on assignments will be considered to be cheating as will student who allow their work to be copied. This included trying to find answers to problems or programs from the internet or other sources.

Grading Policy:

- 50%- Projects
- 30%- Classwork
- 20%- Tests and Quizzes

Student Printed Name

Student Signature

Date

Parent/Guardian Signature

Date