EXPLORING COMPUTER SCIENCE

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Exploring Computer Science is the first course in a two course CTE pathway. This course will focus on computer science.

Computing is situated within economic, social, and cultural contexts and, therefore, influences and is influenced by each of these. So, in order to fully prepare students for various academic and applied tracks, ethical and social issues in computing and careers in computing are incorporated into six units:

- Emphasis is placed on how computing enables innovation in a variety of fields and the impacts that those innovations have on society.
- Students are introduced to the ethical issues raised by the proliferation of computers and networks, as well as the positive and negative impacts of new technologies on human culture. Students will be able to identify ethical behavior and articulate both sides of ethical topics.
- Students study the responsibilities of software users and software developers with respect to intellectual property rights, software failures, and the piracy of software and other digital media.
- They are introduced to the concept of open-source software development and explore its implications.
- Students identify and describe careers in computing and careers that employ computing.

The course was developed around a framework of both computer science content and computational practice. Assignments and instruction are contextualized to be socially relevant and meaningful for diverse students. Units utilize a variety of tools/platfo9rms and culminate with final projects around the following topics; human computer interaction problem solving, web design, programming, computing and data analysis and robotics.

Grading

25% Formative work (including classwork, homework, practice tasks leading to summative work)
75% Summative work (end of unit exams, projects, etc. – there will NOT be any make-up tests to raise grade)

Absences

Students will be able to make up work missed due to **excused** absences, but it will be the students' responsibility to get the missed work. All work will be available online and the lab is open before school each day, but not after school. For after school, please use the HELP lab, but please note that sewing machines will not be available.

Late Work

Work is due as assigned and posted and late work will be accepted but with penalty based on how late. Work turned in with no name will be considered LATE.

Extra Credit

As a general rule there is **NO EXTRA CREDIT,** as extra credit for students translates to extra work for me. **AN EXCEPTION TO THIS WILL BE THE DONATION OF A REAM OF COPY PAPER** for use in the classroom printer. To prevent printer issues, only sealed packages of paper can be accepted.