AP Computer Science Principle

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends.

The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world.

- Recommended Grade: 9, 10, 11, 12
- Recommended Prerequisites: Introduction to Computer Science, Algebra I
- Credits: 2 semester course, 1 credit per semester
- Curriculum: Code.org
- Language: block-based coding
- Requirement: Chromebook or laptop, windows 10, Internet connection.

Content
CSP Unit 1 - Digital Information
CSP Unit 2 - The Internet
CSP Unit 3 - Intro to App Design
CSP Unit 4 - Variables, Conditionals, and Functions
CSP Unit 5 - Lists, Loops, and Traversals
CSP Unit 6 – Algorithms
CSP Unit 7 - Parameters, Return, and Libraries
CSP Unit 8 - Create PT Prep
CSP Unit 9 – Data
CSP Unit 10 - Cybersecurity and Global Impacts