

Curriculum at a Glance
Technology, Engineering, STEM, Business and Computers
Computer Science

Description: This is an introductory course in programming to enable students to think logically to design and create solutions to real life problems since understanding how to code is growing in importance across many areas of study. This course includes an overview of the computer science field, analysis of important issues, and problem solving techniques. It will provide a foundation for the AP Computer Science course.

Unit Name/Description	Content and/or Skills
● Computing	● Develop a basic knowledge of computer architecture and how computer systems work ● To develop an awareness of ethical and social issues related to the use of computers
● Object Oriented Programming	● Read and understand object oriented designed programs with several classes and interacting objects ● Write, run, test and debug solutions in a high level programming language currently Java
● Objects and Data Types	● Learn to create and manipulate: objects, constructors, methods, variables,
● Decisions and iteration	● Understand and create algorithms in Java using conditional and iterative control structures
● Arrays	● Understand and implement one-dimensional arrays