

## BY THE NUMBERS

According to the Bureau of Labor Statistics, the job outlook for computer science positions is predicted to grow 11% between 2014 and 2024—higher than the projected growth rate for other occupations. This is a fast-growing industry with nearly limitless employment opportunities for the right candidate.

The average salary for a Software developer is \$86,220 per year

The average lifetime earnings of a person with a CS degree is \$1.67M. That is 40% higher than the average college degree.

“Learning to code is useful no matter what your career ambitions are.”

—Arianna Huffington, Founder,  
*The Huffington Post*

## CONTACT

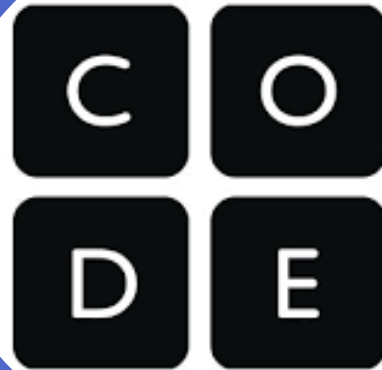
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# COMPUTER SCIENCE

CLARK HIGH SCHOOL  
CAREER & TECH EDUCATION

## COURSES

AP Computer Science Principles  
Computer Science 1 Pre-AP  
AP Computer Science A  
Computer Science 3 Honors



“Learning to write programs stretches your mind, and helps you think better, creates a way of thinking about things that I think is helpful in all domains.”

BILL GATES  
CHAIRMAN OF  
MICROSOFT



# COURSES

## AP COMPUTER SCIENCE PRINCIPLES

A multidisciplinary approach to learning the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. This course also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving.

You can earn three college credits for this course if you pass the AP Exam.

## COMPUTER SCIENCE 1 PRE-AP

This class will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. The primary language for this course is Java.

\* Prerequisites: Algebra 1

## AP COMPUTER SCIENCE A

This course extends student knowledge from CS1. The course is equivalent to a firstsemester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes object-oriented and imperative problem solving and design using the Java language.

You can earn three college credits for this course if you pass the AP Exam.

\* Prerequisites: Algebra 1 or CS1 or AP CS P

## COMPUTER SCIENCE 3 HONORS

This course extends student knowledge from the previous years of study. This course is equivalent to a Java Data Structures college-level course. Students will create program solutions, develop choice and iterative algorithms, and understand object-oriented design concepts of inner classes, outer classes, and anonymous classes. The student is expected to write programs and communicate with proper programming style as well as work in software design teams.

\* Prerequisites: AP CS A

