



The Computer Science Pathway combines Career and Technical Education with Advanced Placement (AP). If a student has never taken a computer science course but is intrigued to learn, AP Computer Science Principles (CSP) is the perfect entry level AP course.

This pathway was designed specifically for those who are not familiar with coding and introduces students to the fundamentals of programming. Students obtain computer science literacy, providing students a competitive edge when applying for computer science programs and a robust academic foundation when taking computer science courses in college.

To sign up for a Computer Science Pathway course, contact a Canyon counselor today!

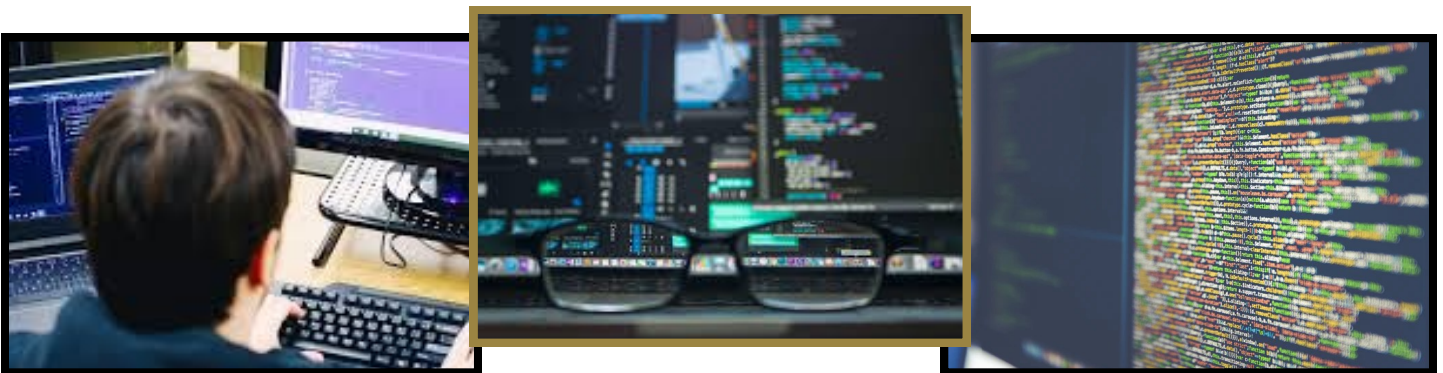
“I would recommend computer science to future students as I believe they will enjoy Miss Robertson's teaching style. She takes our opinions into account and makes sure that everyone feels included in discussions.”

K. P.

Class of 2019

About the AP Computer Science Principal Exam

AP CSP is a unique AP course. The exam consists of three sections that count for different percentages of the student's AP score: the Explore Performance Task (16%), the Create Performance Task (24%), and the End-of-Course Exam in May (60%).



For more information, visit www.canyonhighschool.org or contact Computer Science teacher Miss Zipporah Robertson, zrobertson@orangeusd.org.



Sample Four-Year Plan

The table below represents a sample four-year plan sequencing the required classes to be considered a Computer Science Pathway completer. Students must complete a level 02 & 03 class to be a pathway completer and earn a tassel to wear at graduation. Students should work closely with their counselors to incorporate appropriate honors, IB and AP courses, as well as other graduation and A-G required courses.



Course Type	9th Grade	10th Grade	11th Grade	12th Grade
Computer Science	Foundations of Engineering & Technology	AP Computer Science Principals (May enroll in 10th, 11th or 12th Grade)		Professional Internship

Computer Science Pathway Course Description:

Foundations of Engineering & Technology UC-G (02): This is an introductory course to the field of Engineering, including Aviation, Architectural Design, Alternative Energy, Biotechnology, Communications Technology, Digital Technology, Environmental Technology, Manufacturing Technology and Robotics & Automation. Each field has a learning module to educate students in the engineering fundamentals.

AP Computer Science Principals UC-D (03): It will highlight CS Principles at entry-level. The curriculum supports inquiry-based activities, videos, assessments, and computing tools. The course starts with exploring what happens when a bit of information is sent from one place to another. Students will develop design application that live on the web. The class prepares students excel on the AP Computer Science Principles exam.

Professional Internship (03): Allows students to apply academic knowledge and practice 21st-century employability skills in a workplace setting. Students will prepare job readiness documents and will interview at an assigned site before interning with a local Canyon Business Partner (Examples: Think Together IT, CPR– Cell Phone Repair, Verisurf Software, Inc.).

Computer Science Pathway Teacher:



Miss Zipporah Robertson

Email: zrobertson@orangeusd.org

Miss Robertson has earned her B.S. in Electrical Engineering from Cal Poly Pomona. She provides Canyon with industry experience in Solar Installation, Electrical Wiring, Electronics & Computer Repairs, Computer Numerical Control Routing, 3D Printing, and other various engineering and computer science expertise. Miss Robertson teaches AP Computer Science, Foundations of Technology & Engineering, and Advanced Foundations of Technology & Engineering.

To learn more visit: <https://tinyurl.com/EngineeringScholars>