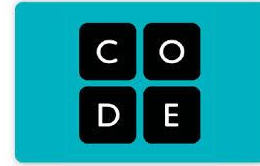# Computer Science Courses

Computer Science Fundamentals

For a lightweight option that can be integrated as a unit in an existing technology or programming class, or as an after-school program, Code.org offers the 30-hour Express Course. This course covers all the core concepts from the elementary school curriculum Computer Science Fundamentals, but at an accelerated pace designed for students ages 10 - 18.

Computer Science Discoveries

CS Discoveries is an introductory course for 6-10th grade students that can be flexibly taught as a single semester, two semesters over multiple years, or as a full year course. Mapped to CSTA standards, the course takes a wide lens on computer science by covering topics such as problem solving, programming, physical computing, user-centered design, and data, while inspiring students as they build their own websites, apps, games, and physical computing devices.

Computer Science Principles (AP course)

Designed for 9 - 12 grade students, CS Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. This year-long course can be taught as an introductory course and as an AP course - no prerequisites required for students or teachers new to computer science! CS Principles complements CS Discoveries with a deeper focus on concepts such as how the internet works and the societal impacts of computer science.

Computer Science A (coming in 2022)

In Computer Science A, students learn object-oriented programming using Java. Students take on the role of software engineers, and practice skills that are used in the field. The Code.org CSA course is designed for any high school student who wishes to continue their computer science education after completing an introductory course such as Computer Science Principles (CSP) or Computer Science Discoveries (CSD)