

Computer Science

Computer Science is focused on understanding how and why computers work, the creation of new technologies, and the impact of these creations on society.

“Computer science in particular has recently taken the national spotlight, with large-scale initiatives at the local, state, and federal levels aiming to ensure that students gain computational literacy skills viewed as “a ‘new basic’ skill necessary for economic opportunity and social mobility.”



Computational literacy is the general use of computer and programs (e.g. computer applications, productivity software, Internet search, digital presentation)

Information technology is the industrial applications of computer science (e.g. installation of software)



“Information technology often overlaps with computer science but is mainly focused on industrial applications of computer science, such as installing software rather than creating it. Information technology professionals often have a background in computer science.”

“Legal and ethical considerations of using computing devices influence behaviors that can affect the safety and security of individuals. There are fundamentals of digital citizenship and appropriate use of digital media, including the norms of appropriate, responsible behavior with regard to the use of technology.”

Digital Citizenship is the appropriate and responsible use of technology (e.g. select an appropriate password)



Educational technology is the application of computer literacy to school subjects (e.g. collaborative editing of an online document)



“Educational Technology involves the disciplined application of knowledge for the purpose of improving learning, instruction and/or performance.”