

## Fields Report

Computer science, software engineering, and information technology may sound similar and, in some ways, they are but are all vastly different in their own aspects. Computer science is all about how computers work entirely. Computer science is also the overall study and use of computers and how they are applied. This involves the study of algorithms, designs, how the computer stores and communicates information. Computer scientists' study all the ways to create new algorithms of code to improve the way that data is stored and communicated. Software engineering is the development of new applications and programs. They are responsible for the advancement of new programs and technology to come out. Everything that involves electronics involves some sort of software, whether it's a phone or a stop light. All of these pieces of technology involve someone to design the software of the product in order for it to work. Information technologists (IT) are people who use computers to store, transmit, retrieve and change data. Information technology includes hardware, virtualization, operating systems and software to perform functions. Information technology is also the use of all of these tools in order to store and visualize data to display for businesses or corporations to view in a neat form.

Computer science has many fields imbedded into it. A field of computer science is networking. Networking is what deals with the interconnection of devices. Networking also refers to resource sharing and creating better systems to transmit data. Computer science in networking involves the study of how to create and improve on previous applications. Networking is all about finding new ways and studying how the protocols and applications.

Another field of computer science is programming languages. Programming languages are the backbone of computer science. Programming languages are the language in which code can be written for applications. Programming languages are what computer science needs in order to continue the development and research of different application and ways to store and communicate data.

Another field of computer science is software engineering. Computer science in software engineering is the reliance of programming languages to write and make new applications. The programming languages are what software engineers use to apply to different things depending on what they're trying to make. Software engineering is required in order for computer science to further the development of computer as a whole and how they operate.