

### Computer Science

Computer Science: What is a computer? (What can a computer do?) focuses on understanding, designing, and developing programs and computers. At its core, Computer Science concentrates on data, data transformation, and algorithms. Advanced courses present specialized programming techniques and specific application domains. The CS program is less structured than the CE and SE programs, giving students more flexibility to build depth or breadth in a variety of application domains or in the fundamentals of Computer Science.

### Computer Information Systems

What can the computer tell us about this data? deals with building and maintaining software systems. It is more software-oriented and has a greater emphasis on large software applications than Computer Engineering. It is more applied than Computer Science, placing greater emphasis on the entire software development process, from idea to final product. It is also more disciplined than Computer Science, applying more systematic practices to help ensure that products are reliable and safe.

### Computer Engineering

Computer Engineering: How can we build a computer? deals with designing, developing, and operating computer systems. At its core, Computer Engineering concentrates on digital hardware devices and computers, and the software that controls them. Advanced courses focus on standard designs and techniques for specific application domains. In contrast to CS and SE, Computer Engineering emphasizes solving problems in digital hardware and at the hardware-software interface.

### Software Engineering

What problems can we solve with the computer? deals with building and maintaining software systems. It is more software-oriented and has a greater emphasis on large software applications than Computer Engineering. It is more applied than Computer Science, placing greater emphasis on the entire software development process, from idea to final product. It is also more disciplined than Computer Science, applying more systematic practices to help ensure that products are reliable and safe.



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