

Computer Science is the study and the science of the theoretical foundations of information and computation and their implementation and application in computer systems. Computer science has many sub-fields; some emphasize the computation of specific results (such as computer graphics), while others relate to properties of computational problems (such as computational complexity theory). Still others focus on the challenges in implementing computations. For example, programming language theory studies approaches to describing computations, while computer programming applies specific programming languages to solve specific computational problems. A further subfield, human-computer interaction, focuses on the challenges in making computers and computations useful, usable and universally accessible to people.

The field of computer hardware and software includes **systems analysis & design, application and system software design and programming and datacenter operations**. Our **CS curricula** (link) are in agreement with the ACM requirements (link [**CS 2001 Interim Review**](#)).

The graduates of our computer science program develop a high-level understanding of systems as a whole. This understanding transcends the implementation details of the various components to encompass an appreciation for the structure of computer systems and the processes involved in their **construction and analysis**. Also the graduates of our computer science program possess a **solid foundation that allows them to maintain their skills as the field evolves**.

Computer science **jobs** include complex computer systems development (software and hardware), fundamental research and higher education in the computer science domain and its applications.