COMPUTER SCIENCE

Computer science and information technology are the foundations of 21st century technology. From animation to music, from automobiles to virtual reality, from analytics to informatics, from augmented reality to robotics, computer scientists and information technologists create and apply the technology that empowers society.

Computer science and information technology focus on real world problem solving. These programs are not just for geeks. CS and IT are for creative people who love to imagine possibilities, solve problems and make a difference in their service to Christ in the church and world.

The computer scientist is a person who is concerned with creating computer systems, with an emphasis on software, which will assist other people in solving problems. The computer scientist is proficient with current software applications and hardware technologies. More importantly, however the computer scientist possesses a deep understanding of the concepts underlying current computer technology. The computer scientist is chiefly concerned with algorithms: general methods of solving problems. Computer scientists must be creative; they must be able to discover innovative ways to apply problem solving techniques to new and diverse situations.

The information technologist is a person who is concerned with applying and managing current computing technology so other people can solve problems productively and efficiently. The information technologist is able to specify and manage the computing resources used in a business. Today every business and enterprise requires information technology to function competitively in the global economy. Succinctly, IT is the engine powering current information systems, and encompasses hardware, software, and people. Information technologists must empathize with their users in order to provide great technological solutions which not only work but are usable.

The computer science department offers a number of majors and minors in order to match student interests and abilities with meaningful vocations. See www.cs.cuw.edu for the latest information on Computer Science programs.

**Majors**

- Computer Science Major (https://catalog.cuw.edu/undergraduate/arts-sciences/computer-science/computer-science-major)
- Information Technology Major (https://catalog.cuw.edu/undergraduate/arts-sciences/computer-science/information-technology-major)

**Minors**

- Computer Animation Minor (https://catalog.cuw.edu/undergraduate/arts-sciences/computer-science/computer-animation-minor)
- Computer Science Minor (https://catalog.cuw.edu/undergraduate/arts-sciences/computer-science/computer-science-minor)
- Game Programming Minor (https://catalog.cuw.edu/undergraduate/arts-sciences/computer-science/game-programming-minor)
- Information Technology Minor (https://catalog.cuw.edu/undergraduate/arts-sciences/computer-science/information-technology-minor)