COMPUTER SCIENCE AND LIBERAL ARTS AND SCIENCES DISCIPLINE

The LAS major in Computer Science and an LAS Discipline is a flexible program for students who plan to pursue technical or professional careers in arts and sciences areas requiring a sound grounding in computer science. This major allows students to combine study of computer science with training in a field in Liberal Arts and Sciences to offer students novel perspectives in interdisciplinary work. Students can use the supporting coursework to prepare for employment immediately upon graduation or for pursuing graduate study in a wide variety of fields or to complete a significant body of courses in a single area, such as a double major or minor.

Students are strongly encouraged to get involved in undergraduate research through independent studies and funded research experiences, with the goal of learning from the University of Illinois CS and LAS internationally recognized scholars outside the classroom and participating in the exciting quest for new contributions to the field.

Students interested in Mathematics or Statistics should enroll in the Math/CS (http://catalog.illinois.edu/undergraduate/las/academic-units/math/mathematics-computer-science-major) or Stat/CS (http://catalog.illinois.edu/undergraduate/las/academic-units/stats/statistics-computer-science-major) degree

Current approved curricula include:

Computer Science and Anthropology
Today, anthropologists use computational tools and algorithms to analyze large amounts of data either gathered from a field site or by studying on-line social communities and social networks. Students majoring in CS + Anthropology will have knowledge of how people live and communicate as social beings, which can inform best designs and user interfaces for software.

Computer Science and Astronomy
Astronomy is a computation-intensive discipline. Computational challenges in astronomy, including radio astronomical data processing, analysis of large optical image data sets, and dynamical and statistical simulation of astronomical systems, test the limits of currently available hardware and software and have led to significant advances in computational science. This major will offer computationally focused students with a grounding in astronomy for them to understand astronomically motivated computational challenges such as mysteries of the origins of life and our universe.

Computer Science and Chemistry
Students majoring in Computer Science and Chemistry are prepared for a variety of careers, including helping manufacturers design more productive and efficient processes, helping pharmaceutical firms characterize new compounds for drug discovery, and conducting research that requires studying the fundamental properties of atoms, molecules, and chemical reactions. Computer Science and Chemistry majors might develop computer models or simulate chemical and biochemical processes, perform statistical analysis of large data sets, or create visualizations of reaction pathways, molecular interactions, or other phenomena.

Computer Science and Linguistics
The Computer Science and Linguistics program brings together students and faculty interested in different aspects of the computer – natural language relationship – i.e., studying the cognitive aspects of natural languages; endowing computers with human-like behavior and understanding of spoken and written natural language; and designing user-friendly computer programs and interfaces using natural language communication.

Students will be exposed to the tools of both disciplines — formal methods, philosophical analysis, computer programming, and empirical research — with the aim of acquiring the appropriate skills required by the field. Graduates will be successful in landing jobs in various areas, including natural language software design and applications, teaching and research, law, medicine, and public service. The innovative aspect of the program is its focus on relating computers to language, technology, and society where the combination has potential for great impact.

- Computer Science and Anthropology (http://catalog.illinois.edu/undergraduate/las/comp-science/anthropology)
- Computer Science and Astronomy (http://catalog.illinois.edu/undergraduate/las/comp-science/astronomy)
- Computer Science and Chemistry (http://catalog.illinois.edu/undergraduate/las/comp-science/chemistry)
- Computer Science and Linguistics (http://catalog.illinois.edu/undergraduate/las/comp-science/linguistics)