DEPARTMENT OF COMPUTER
SCIENCE

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www.cs.uidaho.edu/)).

Computer science is the systematic study of algorithmic processes that
describe and transform information through their theory, analysis, design,
efficiency, implementation, and application. It is a broad discipline with
an ever-growing array of opportunities. Graduates in this field can find
employment in a wide spectrum of public and private enterprises.

The field of computer science encompasses many areas of
specialization. One may find a personal niche in software development,
systems development and hardware selection, studies of compatibility
between hardware and software, programming language development
and modification, information assurance, bioinformatics, or a
combination of these and any number of other diverse computer-
oriented applications and concepts. Because of this diversity in potential
application areas, the computer scientist must be familiar with the
language of the physical or biological sciences, mathematics, and
English. If the computer is to extend its role as a benefit to mankind, the
computer scientist must be broadly educated and conversant with the
many implications of the powerful tool that he or she is controlling and
developing.

The Department of Computer Science was formed in 1981 and is
in the College of Engineering (https://catalog.uidaho.edu/colleges-
related-units/engineering/computer-science/computer-science/). The Bachelor of Science in Computer
Science has been offered at UI since 1977. This program consists of a
carefully designed computer science core, surrounded by an extensive
array of challenging technical elective courses. The core consists of
courses in algorithms and data structures, programming languages,
computer architecture, operating systems, software engineering, theory
of computation, and a senior capstone design experience. All of these
courses have important components of theory, abstraction, and design.

The Bachelor of Science program in computer science is accredited by
the Computing Accreditation Commission (CAC) of the Accreditation
Board for Engineering and Technology (ABET) at 111 Market Place, Suite
1050, Baltimore, MD 21202-4012, who can be reached at 410-347-7700.
The department has made substantial contributions to achieving the
University’s designation by the US Department of Homeland Security as a
National Center of Excellence in Information Assurance Education.

The department offers graduate programs leading to the degrees of
Master of Science and Doctor of Philosophy. These programs combine a
core of advanced work with a complement of elective courses selected to
provide a focused plan of study.

Students in computer science have the unique opportunity to draw
from the expertise of an outstanding faculty with extensive experience
in industry, teaching, and research. Computers currently available to
students include an extensive department network of UNIX, Linux,
and Windows-based workstations and several campus personal
computer laboratories for research focus. All major campus and
department computer systems are networked together with Internet
connections, providing a state-of-the-art computing environment. The
department was instrumental in establishing the Center for Secure
and Dependable Systems (CSDS) and the Initiative for Bioinformatics
and Evolutionary Studies (IBEST). The importance of these labs can
be seen from the range of private and government funding which
supports the department’s research in computer security, computer
reliability, bioinformatics, evolutionary computation and high performance
computing.

Majors

• Computer Science (B.S.C.S.) (https://catalog.uidaho.edu/colleges-
related-units/engineering/computer-science/computer-science-
bscs/)
• Cybersecurity (B.S.) (https://catalog.uidaho.edu/colleges-related-
units/engineering/computer-science/cybersecurity-bs/)

Minors

• Computer Science Minor (https://catalog.uidaho.edu/colleges-
related-units/engineering/computer-science/computer-science-
minor/)

Certificates

• Cybersecurity Undergraduate Academic Certificate (https://
catalog.uidaho.edu/colleges-related-units/engineering/computer-
science/cybersecurity-undergraduate-academic-certificate/)
• Robotics Systems Undergraduate Academic Certificate (https://
catalog.uidaho.edu/colleges-related-units/engineering/computer-
science/robotics-systems-undergraduate-certificate/)

Computer Science Graduate Program

Candidates must fulfill the requirements of the College of Graduate
Studies and the Department of Computer Science. See the College of
Graduate Studies (https://catalog.uidaho.edu/colleges-related-units/
graduate-studies/) section for the general requirements applicable to
each degree.

• Computer Science (M.S.) (https://catalog.uidaho.edu/colleges-
related-units/engineering/computer-science/computer-science-ms/)
• Computer Science (Ph.D.) (https://catalog.uidaho.edu/colleges-
related-units/engineering/computer-science/computer-science-phd/)
• Cybersecurity (M.S.) (https://catalog.uidaho.edu/colleges-related-
units/engineering/computer-science/cybersecurity-ms/)
• Secure and Dependable Computer Systems Graduate Academic
Certificate (https://catalog.uidaho.edu/colleges-related-units/
engineering/computer-science/secure-dependable-computing-
systems-graduate-academic-certificate/)