Learn to create and master the technology of the future in a comprehensive, hands-on program.

Are you fascinated with computers and the applications that empower people to solve real-world problems? If so, earning a Bachelor of Science (B.S.) in Computer Science and Informatics from Creighton University is the perfect option for you.

In an increasingly high-tech world, graduates with knowledge and skills in computing and information technology are in high demand. Computing careers like software engineer, Web designer, game developer, systems analyst, database manager and network administrator can be challenging, dynamic, rewarding and highly lucrative.

When you pursue a bachelor’s in Computer Science and Informatics, you will gain the practical knowledge necessary for today’s information technology jobs, while building the critical reasoning and communication skills you will need for a career in which learning and adapting to new technologies are essential. If you are considering graduate school in computer science, the major provides the perfect blend of theoretical knowledge and practical skills to fully prepare you for graduate studies.

We offer a variety of internships, as well as student research and independent study opportunities for majors.

WHAT YOU’LL LEARN

- You will study and learn to articulate the fundamental concepts of computer science, including the design and analysis of algorithms, the principles of software development and the organization of computer technology.
- You will develop a working knowledge of core technologies from the field, and will apply your computer science knowledge to mastering new technologies.
- You will design, implement, and analyze software systems for solving a variety of real-world problems—working both independently and in a team setting.
- You will consider the tradeoffs involved in design and become more aware of the security aspects of computer systems.
- You will apply problem-solving and critical-thinking skills across disciplines, and will be an effective communicator of technical and scientific ideas.
- You will integrate a broad liberal arts perspective with computer science skills, and will be guided by this knowledge in the social, professional and ethical use of technology.

EXPERIENTIAL LEARNING OPPORTUNITIES

All courses in the computer science and informatics program are taught in computer labs, with hands-on learning and experimentation complementing lectures and discussions.

Many of our majors complete one or more internships during the course of their studies, applying their classroom knowledge and skills to commercial and nonprofit projects. Internships are usually paid and may earn academic credit.

Opportunities for undergraduate research are available through Directed Independent Research and Directed Independent Studies courses, which are collaboratively designed with departmental faculty.

CAREER OUTLOOK

Computer science and informatics majors enjoy one of the highest starting salaries among recent college graduates.

According to the U.S. Bureau of Labor and Statistics, the median annual wage for computer and information technology occupations was $79,390.

Within six months of graduation, 96% of Creighton’s College of Arts and Sciences graduates are employed, enrolled in graduate school or volunteering in their field.

As a computer science and informatics major, you will be well prepared for a job in your field right after college.

In addition, you will have strong technical, analytical and communication skills that are essential for pursuing a graduate degree in computer science or a related field.

CAREER OUTCOMES

Employment Opportunities

Almost all of our graduates are employed within a few months of graduation. Creighton faculty and alumni go the extra mile to help graduates find optimal job placements for companies such as:

- Hewlett Packard
- Epic Systems
- Northrop Grumman
- GE Healthcare
- ConAgra
- Union Pacific
Computer Science and Informatics
College of Arts and Sciences

COMPUTER SCIENCE AND INFORMATICS TRACKS

Two tracks are available within the Computer Science and Informatics tracks:

Bachelor of Science

• Computer Science
• Digital Development

For more details on the full curriculum, visit:
http://catalog.creighton.edu/undergraduate/arts-sciences/journalism/computer-science-informatics-computing-science-track-bs/

GRAPHIC DESIGN AND MEDIA COURSES

Journalism, Media and Computing Department Core Classes:
CSC 121 Computers and Scientific Thinking 3
JRM 215 Information Concepts & Practices 2
JRM 220 Professional Writing 3
GDE 324 Digital Foundations & Websites 3

Computer Science Major Core Courses:
CSC 221 Introduction to Programming 3
CSC 222 Object-Oriented Programming
CSC 599 Senior Capstone

Computer Science Track:
CSC 321 Data Structures 3
CSC 414 Computer Organization 3
CSC 421 Algorithm Design and Analysis 3
CSC 533 Programming Languages 3
CSC 548 Software Engineering 3
CSC Electives 2 courses at 400-level or above 6

Digital Development Track:
CSC 551 Web Programming 3
CSC 581 Mobile App Development
CSC Elective 300 level or above
GDE 380 Graphic Design I
GDE 423 Interactive Design

Select one of the following (for Digital Development): 3
JRM 327 Social Media
GDE 438 Information Ethics

Total Credits 41

Graduate Studies
Many of our students have gone on to prestigious graduate programs and schools, such as:
• UC Berkeley
• Vanderbilt University
• Carnegie Mellon University
• University of Illinois
• Loyola Chicago
• Kansas State University

STUDENT ORGANIZATIONS AND ACTIVITIES

Computer Science Club
The Computer Science Club is a student-driven club aimed at supporting student networking, providing career resources and bringing industry speakers to campus.

Backpack Journalism
Backpack Journalism is a collaborative effort between Journalism, Media & Computing and the Department of Theology. Become a backpack journalist, with a theological perspective, during a study abroad trip. You will help write, shoot and edit a socially conscious documentary and contribute to a multimedia blog. “Mother Kuskokwim,” the 2014 project, won numerous awards.

The Creightonian
Write, edit and help lead The Creightonian, Creighton's weekly campus newspaper published every Thursday during the spring and fall semesters. An online edition covers breaking news and offers valuable digital experience.

Public Relations Student Society of America
Creighton's Public Relation Student Society of America brings JM&C students together with professional public relations practitioners and provides career advantages.