



Bachelor of Science in **COMPUTER SCIENCE**

Explore the Limitless Possibilities of the Programming Frontier

Do you spend your free time programming with Scratch, or Alice, or Javascript? Do you enjoy designing web pages, itching to learn how to make the pages dynamic? Have you dabbled in writing your own software? If that sounds like you, then you will thrive in BJU's computer science program!

Computer Science is the program for students fascinated by the constantly evolving landscape of computer programming, programming languages and software design. As a student in Computer Science, you'll deal mostly with software and software systems, including their theory, design, development and application.

BJU's computer science program starts with developing programming skills and then building the study of computers and computational systems on that core. You'll learn to write software using a variety of languages and in a variety of different environments.

Juniors and seniors will take three tracks:

- **First track:** Explore systems, the structure of a computer and the software that controls it.
- **Second track:** Learn the languages, how they're designed and how to convert a human-readable program into a machine-runnable program.
- **Third track:** Discover how data is organized into databases, protected using security, and acquired and presented using software engineering.

Elective courses are available on topics such as alternative software platforms like mobile and the web, networking, and scientific/mathematical programming.

Future Careers

Technology is inescapable—it's integrated into every business, large and small, as well as into education and government operations. Almost every company and organization will need IT services for maintaining their computer systems and for strategically planning on expanding services. That means there are tons of job possibilities for the computer science graduate—and the number of available jobs is growing!

Here's what some of our grads have done with their degrees:

- BJU grads worked on the development of 3D printers in the mid-90s and were part of a team that received a patent for a device that allows the retrofitting and networking of vending machines.
- Placing pest-monitoring sensors in fields for farms and other agricultural business
- Working for the Department of Defense on government projects
- Writing software for large or small companies

Experience Opportunities

Many of our students participate in paid internships with local software development companies—while earning college credit! Seniors will take a capstone course that includes discussions of CpS and IT current issues as well as a project exploring a current trend or technology in the field.

Computer Science majors also have the opportunity to compete with the BJU Intercollegiate Programming Team and the BJU Robotics Team. BJU's Technology Team visits and works in Christian schools, introducing STEM to students and supporting Christian educators.

Program Distinctives

Our graduates have a reputation for their stellar programming abilities. Other schools seek out BJU's computer science majors for their grad programs.

The BJU Core—a selection of courses in theology, history, literature and the arts—supplements your courses by giving you strong communication skills and technical writing ability. Your classes will balance your programming skills with the ability to communicate and work with others. This balance is key to your professional success—so at BJU, we make sure you're ready for any challenge your career presents.



Interested?

Email Dr. Jim Knisely at jknisely@bju.edu



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