

BACHELOR OF SCIENCE

COMPUTER SCIENCE

Transforming Data into Solutions

EVERY MAJOR CHALLENGE FACING OUR WORLD LOOKS TO COMPUTING AS PART OF THE SOLUTION.

From conquering disease to managing the global supply chain, from improving education to managing the global financial system, computing organizes the ways we work, learn, and live. The bachelor's degree in computer science at Texas Tech equips you with programming, data management, and complex computational design skills that will enable you to ride the wave of technological change. You will be prepared for jobs that don't exist yet!



COMPUTER SCIENTISTS BECOME EXPERTS IN

COMPUTING ARCHITECTURE.

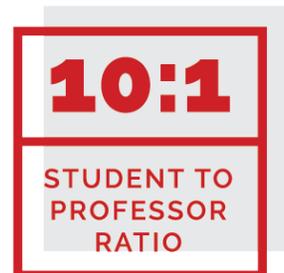
They build interconnected computing systems that integrate real-time knowledge into local and global operations.

ARTIFICIAL INTELLIGENCE.

They develop programs that teach computers to learn, make decisions, and forecast likely outcomes.

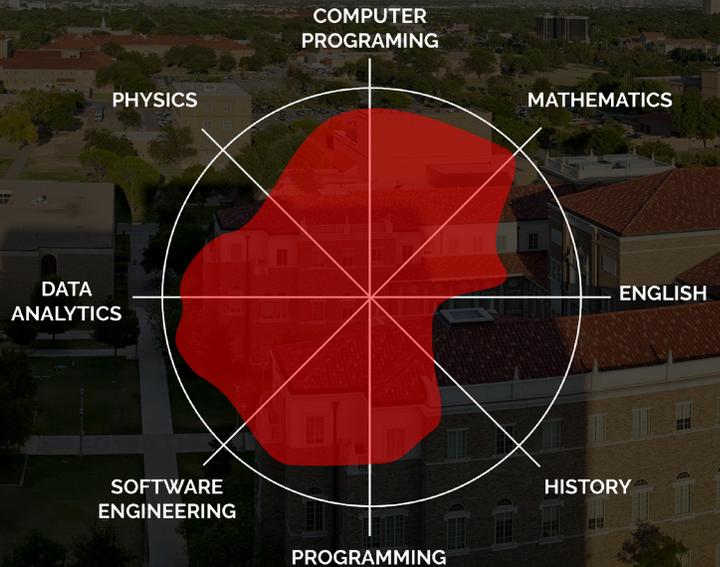
BIG DATA. They retrieve, organize, analyze, and visualize the data that every industry needs in order to compete.

CYBER-SECURITY. They secure computing systems from hostile threats, protecting us from data theft, ransomware, crypto-mining malware, and computer viruses.



DESIGN AND BUILD TOMORROW'S TECHNOLOGIES

The Texas Tech computer science program immerses you in the disciplines, knowledge networks, and technologies you need to launch your global career. As a student in Texas Tech's Whitacre College of Engineering, you have access to world-class faculty and industry leaders that are shaping tomorrow. In our state-of-the-art classrooms and laboratories at Avenida Escazú, you are mentored by Ph.D.-qualified faculty who have a special commitment to helping you, as an individual, to master the knowledge you need in order to be globally competitive and succeed.



HANDS-ON EDUCATION FOR JOBS OF THE FUTURE

Texas Tech's Computer Science B.S. provides a broad-based understanding of computer science as a discipline and as a profession. In addition to developing your technical hard skills, the Texas Tech-Costa Rica experience prepares you with the soft skills that will help you stand out and lead.

First-Year Experience

As a first-year student, you explore the relationship between computer science and the other engineering disciplines. In addition to classes in English, math, chemistry, and physics, you will take courses that introduce you to trends currently shaping all engineering fields:

-  **bio-inspired design**
-  **data science**
-  **engineering and society**

The first-year seminar clarifies the differences among engineering disciplines, helping you experience how computing professionals work as part of larger creative teams.

Senior Capstone Project

Our program focuses on equipping graduates to stand out from their peers by balancing theory and practical application. The four years of learning culminate in the senior-year design project. Working closely with a faculty mentor and your peers, you will create and implement your own original research project focusing on an authentic computing problem. Completing the project strengthens your capacity in software engineering at the same time that it consolidates your teamwork and communication skills.

The project you select will give you a head start in launching a career as a computer architect, data scientist, software engineer, or systems analyst. With the combination of theory and practice, hard and soft skills, you will emerge as competent, confident and highly employable in the globally competitive job market.

