COMPUTER SCIENCE has changed our daily life and modern society in the digital era. Ranked among the top three college degrees with the highest starting salaries by Forbes, exciting possibilities exist for students in computer science and software engineering. Students work with distinguished faculty in applying math and science skills, gaining valuable hands-on experience, and conducting research funded by federal, state, and industry organizations. Learning advanced problem-solving methods and techniques, Texas Tech computer science students are prepared to solve the world’s challenges in a dynamic and rapidly expanding field.

DEGREES

- Bachelor of Science in Computer Science
- Dual Bachelor’s Degrees: Mathematics and Computer Science
- Combined B.S./M.S. in Comp.Sc. or Soft.Eng.
- Graduate Certificate in Software Engineering
- Master of Science in Computer Science
- Master of Science in Software Engineering
- Doctor of Philosophy in Computer Science

CONTACTS

Dr. Rattikorn Hewett
Department Chair
rattikorn.hewett@ttu.edu

Dr. Yu Zhuang
Director of Graduate Studies
yu.zhuang@ttu.edu

Dr. Richard Watson
Director of Undergraduate Studies
richard.watson@ttu.edu

Jessica Lunsford
Academic Graduate Advisor
jessica.lunsford@ttu.edu

Patricia Rodriguez
Academic Undergraduate Advisor
patty.rodriguez@ttu.edu

T 806.742.3527
www.cs.ttu.edu

RESEARCH The department has an excellent graduate faculty with research specialties in a variety of areas, including logic programming, artificial intelligence, distributed and high performance computing, data management, software engineering, cyber security, cyber-physical systems, embedded software, data mining, wireless networks, and image compression.

FACILITIES The computer science department is equipped with more than 40 Sun machines, 60 Macs, and 100 PCs. Students have access to the university’s High Performance Computer Center and can solve large-scale computation problems by taking advantage of TechGrid, a local grid resource consisting of more than 300 CPUs.

UNDERGRADUATE PROGRAMS Students pursuing a Bachelor of Science in Computer Science receive a strong foundation in computer science fundamentals including programming, data structures, discrete mathematics, algorithm analysis, computer architecture, automata, operating systems and databases.

GRADUATE PROGRAMS The computer science department at Texas Tech University offers four graduate programs:

- Doctor of Philosophy in Computer Science
  At the completion of the Ph.D., computer science graduates will have the ability to work in multidisciplinary environments with cross-functional teams, perform modeling and experimental analysis on challenging research problems, and investigate current advances in computing research for the purpose of making innovative contributions to society.

- Master of Science in Computer Science

- Master of Science in Software Engineering
  Two general plans are available for the Master of Science degree: a 30-hour plan that includes 6 hours credit for the master’s thesis and a 36-hour plan that is based solely on coursework and a comprehensive exam.

  The M.S.S.E. program is intended to give the graduate a firm foundation in the definition, development and maintenance of complex software systems using traditional engineering process methods.

- Certificate of Software Engineering
  The Certificate in Software Engineering is intended for those who do not need or wish to have a full graduate degree in software engineering or computer science. In particular, the certificate is directed towards working professionals and graduate students in non-computer science majors who are interested in systematic software development.