

# DEPARTMENT OF COMPUTER SCIENCE

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The Department of Computer Science at Texas State is the hub of computing related education and research activities on the campus.

The department is on a mission to advance the knowledge of computer science and technology through education, research, and service for the betterment of society. The department is a doctoral-granting department with plans to expand its depth and breadth in the research and study of applied computing.

Computer science faculty members actively pursue research in artificial intelligence, computer communication and networking, computer vision, cyber security and trustworthy computing, database and information systems, data analytics, distributed and parallel computing, high performance computing, human computer interaction, machine learning, data mining, multimedia computing, real time systems, sensor networks, smart health, software engineering, and sustainable computing. The faculty's research has been supported by federal and state agencies and industry such as NSF, NIST, DoD, DoE, PNNL, LLNL, TxDOT, Semiconductor Research Consortium, IBM, Intel, NVidia, Google, Facebook, Cisco, and Emerson. Our faculty members have obtained prestigious awards such as the PECASE Award, NSF CAREER Awards, IBM Faculty Fellowship, Facebook Faculty Research Award, and Google Faculty Research Awards.

Computer science students take courses in a well-designed curriculum taught by the department's faculty members who are accessible, nurturing, and eager to engage students in learning and research. Students have access to an array of hardware, system software, and applications in our first-class computing laboratories.

## Non-Degree Credit

Individuals may apply for "non-degree seeking student" admission through The Graduate College to enroll in computer science background.

Please note: International students must meet specific admission requirements, including acceptable TOEFL or IELTS scores. Please refer to the "Non-Degree-Seeking Applicants (<http://mycatalog.txstate.edu/graduate/admission-information/non-degree-seeking-applicants/>)" section of this catalog.

## Doctor of Philosophy (Ph.D.)

- Major in Computer Science (Information Management Concentration Entering with Master's Degree) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-infomang-enteringmasters-phd/>)
- Major in Computer Science (Information Management Concentration Entering with Bachelor's Degree) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-infomang-enteringbachelors-phd/>)
- Major in Computer Science (Software Systems Concentration Entering with Master's Degree) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-software-systems-enteringmasters-phd/>)

- Major in Computer Science (Software Systems Concentration Entering with Bachelor's Degree) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-software-systems-enteringbachelors-phd/>)

## Master of Arts (M.A.)

- Major in Computer Science (Non-thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/ma/>)
- Major in Computer Science (Thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-thesis-ma/>)

## Master of Science (M.S.)

- Major in Computer Science (Data Science Concentration Non-thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-datascience-nonthesis-nominor-ms/>)
- Major in Computer Science (Data Science Concentration Thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-datascience-thesis-ms/>)
- Major in Computer Science (Non-thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/ms/>)
- Major in Computer Science (Non-thesis Science Minor Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-nonthesis-minor-ms/>)
- Major in Computer Science (Software Engineering Concentration Thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-software-engineering-thesis-ms/>)
- Major in Computer Science (Software Engineering Concentration Non-thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-software-engineering-nonthesis-ms/>)
- Major in Computer Science (Thesis Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-thesis-nominor-ms/>)
- Major in Computer Science (Thesis Science Minor Option) (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/computerscience-thesis-minor-ms/>)

## Minors

- Computer Science (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/minor/>)
- Software Engineering (<http://mycatalog.txstate.edu/graduate/science-engineering/computer/software-minor/>)