

Erik Jonsson School of Engineering and Computer Science

Master of Science in Computer Science



Program Description

Led by internationally renowned faculty, the Master of Science in Computer Science program trains students to become experts and industry leaders in fields related to computer science. The program's comprehensive curriculum and multidisciplinary approach ensure that students master computing theory and technology so that they'll excel in business, industrial and governmental careers.



The program offers courses and research opportunities in a wide variety of computer science subfields, including:

- Cyber security and information assurance
- Programming languages, database design and computer networks
- Operating systems and computer architecture
- Artificial intelligence, machine learning and data science
- Computer graphics, computer vision and virtual reality
- Automata theory, combinatorics and computational geometry
- Parallel processing, and VLSI
- Software systems

BenefitsSkills

The Computer Science master's program is designed for both full-time students and working professionals. Students in the program benefit from:

- *World-Class Faculty:* The program is led by faculty of the Erik Jonsson School of Engineering and Computer Science who are widely cited experts in their respective fields.
- *Multidisciplinary Opportunities:* : In addition to core program faculty, many other UT Dallas faculty are involved in research related to Computer Science, from the natural and social sciences to business and management. Master's students have the opportunity to consult and work with faculty across the disciplines.
- *Comprehensive Curriculum:* Courses in the Computer Science master's program will introduce students to new ideas, technologies, and competencies while also teaching them the skills they'll need to thrive in competitive, ever-changing industries.
- *Facilities:* Jonsson School facility resources now include one of the largest project design studios in the country, as well as a Makerspace area for creative pursuits. Three buildings on campus are dedicated to engineering and computer science: ECS South, North and West, as well as collaborative research spaces in the Bioengineering and Sciences building, the Edith O'Donnell Arts and Technology building and the Natural Science and Engineering Research Laboratory.
- *Convenience:* With both daytime and evening classes, the program provides flexible coursework options for students from all walks of life.
- *Location:* Situated in the greater Dallas region—recently rated by *Forbes* magazine as the #1 “Best City for Jobs”—UT Dallas provides students with easy access to employers and internship opportunities, not to mention a large and supportive alumni population.

Career Opportunities

Graduates of the Computer Science master's program have gone on to pursue professional careers

Contact Information

Admissions

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in a wide variety of fields. Some of the most popular fields include:

- Software Engineering
- Software Development
- Cyber Security Engineer
- Data Science
- Program Analysis
- Computer Systems Analysis
- Database Administration
- Network Systems and Data Communication Analysis

Marketable Skills

Upon successful completion of the MS in Computer Science, graduates will be able to enter the workforce with the following skills:

- Designing algorithms to solve advanced computing problems
- Critical thinking
- Developing advanced software systems
- Comparing merits and demerits of different solutions

Application Deadlines and Requirements

Please take note of all application deadlines and visit the Apply Now webpage to begin the application process. See the Computer Science degree program webpage or additional information.

Applicants to the Computer Science master's degree program are admitted on a competitive basis and should have:

- A Bachelor's degree (including 2 semesters of calculus, 1 semester of linear algebra and a strong foundation in programming)
- A grade point average (GPA) of at least 3.0 for the last 60 semester credit hours. GPA in quantitative courses should be at least 3.3.
- GRE test scores. GRE revised score of 308 combined—153 for verbal and 155 for qualitative—and 4 on the analytical writing components are advisable based on the program's student success outcomes.
- International applicants must submit a TOEFL score of at least 80 on the internet-based test. Scores must be less than two years old. See the Graduate Catalog for additional information regarding English proficiency requirements for international applicants.
- Students lacking undergraduate preparation in computer science may need to complete additional coursework. See the Graduate Catalog for additional information.

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