

Computer Engineering

TO: Prospective Computer Engineering Graduate Students
From: Computer Science & Engineering Graduate Committee

Thank you for your interest in the Computer Science & Engineering Graduate Program at the University of North Texas.

Deadlines for applying are as follows: **Fall Semester- January 15th** **Spring Semester- September 15th**

All materials for your application, including all official test scores, letters of recommendation, Assistantship Applications and transcripts, must arrive at the Graduate School admissions office by these dates. You must request official GRE/TOEFL scores early to ensure that they arrive by the deadlines. Complete applications received by the deadline will be ranked and the top applicants will be admitted.

MINIMUM REQUIREMENTS FOR ADMISSION

Effective: August 1st, 2005

All students¹ applying for graduate study, Master's or PhD, must have completed a 4-year bachelor's degree, and **must** take the **GRE** test. **GRE** guidelines are based on statistics for all GRE scores of students interested in graduate study in Computer Science & Engineering, as released by ETS (the Educational Testing Services). These statistics change as new figures are released by ETS. In addition, international applicants who do not have a previous degree from a U.S. institution must take the **TOEFL** exam. It is the student's responsibility to have official scores sent from ETS to the University of North Texas and those scores must be **received by the deadlines** in order to be considered for admission that semester. *If you do not meet the minimum English requirements, you will have the option of registering for the Toulouse Graduate School IELI program.* <https://international.unt.edu/content/why-wait>

TYPICAL SCORES FOR SUCCESSFUL APPLICANTS

Master's Applicants:

GRE

Verbal **148** – 36%
Quantitative **155** – 61%
Analytical 3.5

TOEFL: 557 written exams / **90** Internet-based

IELTS: 6.0

GPA: 3.0 in prior work

Letters of Recommendation: None required

Doctoral (PhD) Applicants:

GRE

Verbal **151** – 49%
Quantitative **156** – 65%
Analytical 4.5

TOEFL: 557 written exams / **90** Internet-based

IELTS: 6.5

GPA: 3.5 in prior work

Letters of Recommendation: 3

Statement of Purpose: yes

A prior Computer Science and Engineering degree is not required for admission to the Master's program, but the admission committee will look for evidence that the applicant has a good chance of thriving in a scientific graduate program. A prior Computer Science & Engineering degree, or substantial Computer Science & Engineering experience, is required of all Ph.D. applicants.

Admission is competitive and based on the number of positions available in our program.

MAINTAINING GRADUATE STANDING

All graduate students are expected to make satisfactory progress toward a degree. An overall B average must be maintained, and two courses per year (not previously attempted) must be completed or evidence submitted showing activity in thesis or dissertation work.

For the M.S. degree, all requirements must be completed within six years from the date of admission. Students accepted in the Ph.D. program must be admitted to candidacy within three or five years from their date of admission to the Ph.D. program depending on whether or not the student already has a Master's degree. After admission to candidacy, all requirements, including the dissertation and the final oral exam, must be completed within five additional years.

Any provisionally admitted student who fails to fulfill the requirements specified at admission or any student who for two successive semesters fails to maintain at least a B average will be dropped from the program, unless after a review of the student's overall record, it is the opinion of the Graduate Committee that the student has demonstrated sufficient potential to pursue the graduate program successfully. In this case, probationary status will be granted for one semester.

¹ Except Graduates of the Department of Computer Science & Engineering at The University of North Texas

FINANCIAL ASSISTANCE

Teaching Assistantship or Teaching Fellow (TA/TF) positions are offered to current Computer Science & Engineering majors who are attending classes at UNT. Prospective students are welcome to apply, **but these positions are very rarely offered to potential new students**, and preference generally goes to PhD students. Research Assistant (RA) positions are selected by the individual professors from their current students. Students must submit a completed TA/TF Assistantship Application Form, **separate from the Admission Application form**, to the Computer Science & Engineering Department. The application form is available on the website at <https://computerscience.engineering.unt.edu/webforms/assistantship-application>. All application materials (including official test scores, letters of recommendation, Admission applications, and transcripts received **before** the following deadlines:

Fall Semester: January 15th Spring Semester: September 15th.

Master's Degree Requirements

Computer Engineering

The Computer Science and Engineering Department offers two Master's Degree options:

Option A: Thesis Option (30 hours, including thesis). Leveling and Internship courses cannot be counted toward the degree plan hours.

Option B: Course Option (33 hours that may include 3 hours of project or 6 hours of problem in lieu of thesis). Leveling and Internship courses cannot be counted toward the degree plan hours.

To qualify for the master's degree, the student must earn a grade of B or better in each of the core courses.

Course Selection

Computer Engineering Master's students are required to take one course from each of the four groups listed below:

- The remaining courses and areas of specialization are selected in consultation with the student's advisor. Recommended classes for specialty areas can be found on our website: <https://computerscience.engineering.unt.edu/graduate/students>
- No more than 3 hours in non-organized courses (such as directed study or special problems) will be permissible.
- Leveling course(s) are typically required if the applicant does not have a BS with a major in computer engineering.

Group A

- CSCE 5510 - Wireless Communications
- CSCE 5520 - Wireless Networks and Protocols
- CSCE 5580 - Computer Networks

Group B

- CSCE 5160 - Parallel Processing and Algorithms
- CSCE 5610 - Computer System Architecture
- CSCE 5640 - Operating System Design

Group C

- CSCE 5440 - Real-Time Software Development
- CSCE 5612 - Embedded Hardware & Software Design
- CSCE 5620 - Real-Time Operating Systems

Group D

- CSCE 5730 - Digital CMOS VLSI Design
- CSCE 5740 - Topics in Modern Electronic System Design
- CSCE 5760 - Design for Fault Tolerance

Only one unorganized course (not less than 3 sch), and up to 2 Internship courses (max 2 sch) may be placed on the MS degree plan. All outside courses must have prior approval by the student's major professor with a justification written on the back of this degree plan.