University of North Texas  
Department of Computer Science & Engineering  
Computer Engineering

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

Thank you for expressing an interest in the Computer Science & Engineering Graduate Program at the University of North Texas. Deadlines for applying are as follows:

Spring Semester: October 1st      Summer Semester: March 1st        Fall Semester: March 1st

Please note that all materials for your application (including all official test scores, letters of recommendation, Assistantship Applications, and transcripts) must arrive at the admissions office by these dates, so you must request official GRE/TOEFL scores early enough to insure that they will arrive by the deadlines. Complete applications received by the deadline will be ranked and the top applicants will be admitted.

If your complete application has not been received by the deadline, it cannot be processed and ranked with the other applicants.

MINIMUM REQUIREMENTS FOR ADMISSION  
Effective October 1st, 2004

All students applying for graduate study (Master’s or Ph.D.) must take the GRE test. GRE requirements 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 Service), and the requirements 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 these scores must be received prior to the deadlines in order to be considered for admission that semester. From the most recent figures at the time that this document minimum acceptable scores are listed below:

MINIMUM ACCEPTABLE SCORES

<table>
<thead>
<tr>
<th>Master's Applicants:</th>
<th>PhD Applicants:</th>
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<tbody>
<tr>
<td>GRE:</td>
<td>GRE:</td>
</tr>
<tr>
<td>Verbal – not required as of 10/2004</td>
<td>Verbal – 50%</td>
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<tr>
<td>Quantitative – 700</td>
<td>Quantitative – 700</td>
</tr>
<tr>
<td>Analytical (exam prior to 10/01/02) – 600</td>
<td>Analytical (exam prior to 10/01/02) – 600</td>
</tr>
<tr>
<td>Analytical Writing (exam after 10/01/02) – 4.0</td>
<td>Analytical Writing (exam after 10/01/02) – 4.5</td>
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<tr>
<td>TOEFL: 580 written exam/237 computer exam</td>
<td>TOEFL: 580 written exam/237 computer exam</td>
</tr>
<tr>
<td>GPA: 3.0 in prior work</td>
<td>GPA: 3.5 in prior work</td>
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<tr>
<td>Letters of recommendation: None Required</td>
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A prior Computer Science & Engineering degree is not required for admission to the Master program, but the admissions 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 Ph.D. applicants.

• Admission is competitive and based on the number of positions available in our program.
• Satisfaction of the minimum requirements listed above does not guarantee admission.
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.

FINANCIAL ASSISTANCE

At this time, all 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. 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 (available on the website at http://www.cs.unt.edu/~gradinfo/assist.pdf) and make sure that their complete admission application has arrived at the university by the appropriate deadline. To be considered, all application materials (including all official test scores, letters of recommendation, Assistantship applications, Admission applications, and transcripts) must be received at the department before the following deadlines:

Fall Semester: March 1st      Spring Semester: October 1st

DEGREE OPTIONS FOR MASTER’S DEGREE

The Computer Science & Engineering Department offers two Master’s Degree options:

Option A: Thesis Option (24 hours of organized course work plus 6 hours of thesis and CSCI 5170, but excluding leveling courses).

Option B: Course Option (36 hours of coursework which may include 3 hours of project, plus CSCI 5170).

COURSE SELECTIONS

• Need leveling courses(s) if you do not have BS in computer engineering. Select one course from three out of the four specialty areas. Select at least three courses from one area and at least one of these should be a 6000 level course. No more that 3 hours of non-organized class such as individual study.

• The project option requires enrollment in CSCE 5900, which involves display of the project work at an open department reception, and a final project report that must be submitted to the graduate coordinator at least two weeks before the end of the student’s final semester.

• The student may elect to include a minor in his/her degree plan if it is in support of his/her Computer Science & Engineering studies, and should be approved in advance of taking minor courses. Regardless of the number of hours completed for a minor, a minimum of 27 hours of graduate work in Computer Science & Engineering is required for completion of the degree. More details on getting approval for a minor are available from the CSCI department office.
**MASTER'S DEGREE REQUIREMENTS**

As an introduction to the department and to research in Computer Engineering in general, every Master’s student must take the CSCI 5170 course, *Teaching and Research in Computer Sciences*, during the first long semester they are enrolled in graduate classes. One hour of credit is obtained from this course.

The Computer Engineering Core is divided into Four areas:

**VLSI**
- CSCE 5740 – VLSI Design (Core course)
- CSCE 5750 – VLSI Testing
- CSCE 5760 – Design for Fault Tolerance
- CSCE 6650 – Advanced Compiler Optimization
- CSCE 6720 – Advanced Computer Architecture

**Communications and Networks**
- CSCE 5510 – Wireless Communication Theory (Core course)
- CSCE 5520 – Wireless Networks and Protocols
- CSCE 5530 – Computer Network Design
- CSCE 5570 – Digital Communication
- CSCE 6781 – Advanced Computer Networks
- CSCE 6790 – Advanced Topics in Wireless Communication and Networks
- CSCI 5780 – Computer Networks (Core course)

**Real-Time Systems**
- CSCE 5620 – Real-Time Operating Systems
- CSCE 6620 – Advanced Real-Time Operating Systems
- CSCI 5540 – Operating Systems Design
- ELET 5310 – Industrial Process Control
- ELET 5330 – Instrumentation Systems

**Computer Systems**
- CSCE 6650 – Advanced Compiler Optimization
- CSCI 5250 – Programming Languages
- CSCI 5540 – Operating System Design
- CSCI 5550 – Compiler Design
- CSCI 5700 – Computer System Architecture (Core course)
- CSCI 5750 – Parallel Processing and Algorithms
- CSCI 6250 – Advanced Programming Languages
- CSCI 6720 – Advanced Computer Architecture

**General Courses**
- CSCI 5800 – Internship
- CSCI 5890 – Direct Study
- CSCI 5900-5910 – Special Problems
- CSCI 5950 – Master’s Thesis

All of the above options must be approved by the Major Professor, the Graduate Coordinator, and by the Graduate School prior to the last 2 semesters of classes by submitting a degree plan. Any changes to an approved degree plan must also be approved in writing by all of the aforementioned parties.