

Graduate Programs
in
Dept of Computer Science
Univ. of Texas at San Antonio

Dr. Weining Zhang

Overview

- ❖ Two graduate degrees:
 - ▲ Master of Science (MS) in Computer Science
 - ▲ PhD in Computer Science
- ❖ Currently, there are about
 - ▲ 70 masters students
 - ▲ 70+ PhD students
 - ▲ 24 tenured/tenure-track faculty

Masters Program

- ❖ Graduate courses in core areas, including:
 - ▲ Architecture, Operating Systems, Algorithms, Compilers, Networking, Multimedia, Databases, Info Security, Software Eng., Machine Learning, Artificial Intelligence, Bioinformatics, Numeric Analysis, Visualization, User Interface, etc.
- ❖ Special concentration areas in near future
 - ▲ Computer and Network Security
 - ▲ Software Engineering

Masters Program Options

- ❖ Three options:
 - ▲ Thesis option
 - Opportunity to participate in research projects, write and defend a thesis
 - ▲ Non-thesis project option
 - Opportunity to participate in research projects
 - ▲ Non-thesis course option
 - Opportunity to take courses on more subjects
- ❖ Typically the MS is completed in two years

Why Earn a Masters Degree ?

- ❖ Get a better job with higher pay
- ❖ Learn advanced topics from experts
- ❖ Improve CS knowledge and skills
- ❖ Prepare for career advances

Masters Degree Requirements

- ❖ Complete 36 credit hours
 - ▲ 12 credit hours of required courses
 - ▲ 18 credit hours of elective courses
 - ▲ 6 credit hours depending on option
 - Thesis
 - Project
 - Courses
- ❖ Cumulative *GPA* 3.0 or higher

Masters Program Admission

- ❖ Cumulative GPA 3.0 or higher in last 60 hours of course work
- ❖ TOEFL score (for international applicants)
- ❖ Require CS background in subjects such as
 - ▲ Data structure, algorithms analysis
 - ▲ Computer organization, architecture
 - ▲ System programming, operating systems
 - ▲ Math: calculus, linear algebra, probability & statistics, discrete math

Apply for Admission to Masters Program

- ❖ Apply on-line:

 - ▲ <http://www.utsa.edu/graduate/Admission>

- ❖ Have sent in:

 - ▲ Transcripts

 - ▲ Letters of recommendations

 - ▲ TOEFL scores (GRE not required)

- ❖ Domestic applicant deadline:

 - ▲ July 1 for Fall and Nov. 1 for Spring

- ❖ International applicant deadline:

 - ▲ April 1 for Fall and Sept. 1 for Spring

Ph.D. Program

❖ Leading-edge research opportunities:

- ▲ Bioinformatics
- ▲ Languages and Compilers
- ▲ Networking
- ▲ Software Engineering
- ▲ Database
- ▲ High Performance Computing and Scientific Computing
- ▲ Multimedia
- ▲ Operating Systems
- ▲ Visualization
- ▲ Artificial Intelligence and Machine Learning
- ▲ Algorithms
- ▲ Information Assurance, Computer Security, and Cryptographic Protocols

Why Earn a Ph.D.?

- ❖ To become an expert in your field
- ❖ To participate in the advancement of human knowledge
- ❖ To increase your durable human capital
 - ▲ It stays on your resume long after your current skills have become obsolete
- ❖ To establish your credentials as a researcher
 - ▲ Enables you to be principal investigator of government-funded research projects
 - ▲ Enables you to direct research in your company or government organization
- ❖ To establish your credentials as an educator
 - ▲ Enables you to become a member of the Graduate Faculty of your institution

Ph.D. Degree Requirements

- ❖ Complete 90 credit hours
 - ▲ 30 hours of graduate courses
 - 12 hrs core courses, 18 hrs electives
 - ▲ 42 hours of research
 - 6 hrs seminar, 18 hrs Doc. Res., 18 hrs Dissertation
 - ▲ 18 hours of flexible electives
- ❖ Do research that contributes to the discipline of Computer Science
- ❖ Write and defend a dissertation
- ❖ Typically takes 5 years after a BS degree

Ph.D. Admission Requirements

- ❖ B.A., B.S., or M.S. degree in CS or related area
- ❖ Cumulative GPA of 3.30 or higher in the last 60 hours of course work,
- ❖ A total score of at least 1000 on the GRE verbal and math sections and at least 3.0 on the analytical section,
- ❖ A score of at least 550 on TOEFL (213 for the computer version) for int'l students
- ❖ Three letters of recommendation

How to Apply for Ph. D. Admission

❖ Apply on-line:

▲ <http://www.utsa.edu/graduate/Admission>

▲ Provide: Resume, Statement of Research Experience and Interests

❖ Have sent in:

▲ Transcripts

▲ Letters of recommendations

▲ GRE & TOEFL scores

❖ Application deadlines: Feb. 1 for Fall, Oct. 1 for Spring admission (domestic or international)

Financial Support

- ❖ Stipend for Ph. D. Students
 - ▲ \$21000/year plus paid tuition and fees
 - ▲ May continue subject to acceptable progress
 - ▲ May require teaching
- ❖ Research & Teaching Assistantship
 - ▲ Available to qualified masters and Ph.D. students
- ❖ Graduate Research Scholarship is also available to masters students

Additional Information

❖ Web sites:

▲ CS Dept: <http://www.cs.utsa.edu>

▲ Grad Col: <http://www.utsa.edu/graduate>

❖ Email:

▲ Office: cs@utsa.edu

▲ Grad. Advisor of Record:

wzhang@cs.utsa.edu

❖ Department Office:

▲ Room: SB 4.01.28

▲ phone: (210) 458-4436