

About UTSA

The University of Texas at San Antonio serves the San Antonio metropolitan area and the broader region of South Texas through programs and services offered from its three campuses: Main Campus, Downtown Campus and UTSA's Institute of Texan Cultures.

With over 28,000 students enrolled in 126 undergraduate and graduate degree programs, UTSA is the second-largest component in The University of Texas System and has been one of the state's fastest-growing public universities for much of the last decade.

UTSA offers 63 bachelor's, 43 master's and 20 doctoral degree programs. With eight new doctoral programs and seven more master's programs in the planning stages, UTSA is rapidly moving toward classification as a doctoral/research intensive institution.

UTSA offers access and opportunity for large numbers of historically underserved students. As the premier doctoral/research university of South Texas and as a Hispanic-serving institution, UTSA will continue to provide educational opportunities for the underrepresented population of the region at the highest level of excellence.

CEE Department contacts

CEE Department:

Iliana Rodriguez
Administrative Associate I
iliana.rodriguez@utsa.edu
(210) 458-7517

ESE Ph.D. Program:

Lisa Ramirez
Administrative Associate I
lisa.ramirez1@utsa.edu
(210) 458-4428

For additional information, please visit our website at: <http://engineering.utsa.edu/CEindex.html>

THE UNIVERSITY OF
TEXAS AT SAN
ANTONIO

Department of Civil & Environmental Engineering

MSCE and MCE Degrees in Civil Engineering

Ph.D. Degree in Environmental Science and Engineering



Welcome to the Department of Civil and Environmental Engineering

The Department offers a Master of Science degree in Civil Engineering. (MSCE) and a **new** Master of Civil Engineering degree (MCE). The MSCE is a research oriented thesis program, while the MCE is a **course only** professional training program.

The Department also offers a Doctoral (Ph.D.) degree in Environmental Science and Engineering in cooperation with the College of Sciences.

The objective of the graduate degree program is to provide advanced training in the four Civil Engineering specialty areas—Environmental, Geotechnical/Transportation, Structural and Water Resources.



Small class sizes ensure personal attention from the highly qualified faculty. The Department has state-of-the-art laboratories for each major technical area. They are housed in the Engineering Building, (EB) Biotechnology, Sciences and Engineering (BSE) building and the Applied Engineering and Technology (AET) building. They include:

- Geomaterials (**AASHTO Accredited**)
- Geotechnical
- Environmental
- Structures
- Hydraulics
- PC/CAD

Research Assistantships and Teaching Assistantships are available on a competitive basis to full time students carrying out research. Typical amounts are \$22.5k and \$25.5k per year for MSCE and PhD students. Additional stipends of up to \$7.5k are offered by the COE for exceptional applicants under the new \$2.5 million fund established by Valero Energy. Funding agencies include NSF, NOAA, TxDOT, HP, DOE, DOA, City of SA, SAWS and so on.

Graduate Programs in Civil Engineering

Master of Science & Master in Civil Engineering Degrees

The MSCE degree is designed to provide civil engineering graduates with advanced research training, while the **new MCE degree** is targeted towards providing advanced technical training to practicing engineers. Technical training is provided in five technical areas: environmental, geotechnical, hydraulic, structural and transportation engineering.

The MSCE is a courses plus thesis program, while the MCE is a **courses only** program. Both programs provide advanced training and built critical thinking skills through course work. In addition, the MSCE emphasizes research and technical writing skills by requiring a thesis.

MSCE and MCE Program Admission Requirements. In addition to the University-wide graduate admission requirements for unconditional admission, applicants must satisfy the following, and admission decisions will be based on the following criteria:

- a satisfactory score, as specified by the Graduate Program Committee for Civil Engineering, on the Graduate Record Examination (GRE),
- an undergraduate degree in civil engineering or a closely related field from an accredited institution of higher education, or proof of equivalent training at a foreign institution,
- a statement of research/specialization interest,
- a favorable recommendation by the Master of Science in Civil Engineering Admissions Committee.

A student who does not qualify for unconditional admission, may be admitted on a conditional basis as determined by the Masters Admissions Committee.

Degree Requirements. The minimum number of semester credit hours required for the degree, in addition to any conditional course requirements, is 34 semester credit hours for the MCE and 30 semester credit hours for the MSCE. At least 24 semester credit hours must be taken at UTSA. MSCE students are re-

quired to pass an oral thesis defense administered by his or her advisory committee which is chaired by a faculty member. MCE students are required to give a technical seminar or a thesis defense.

CEE Faculty

The CEE faculty has a broad technical background and strong contacts with industry and academia nationally and internationally. The size of the faculty, currently numbering 16, includes:

Dr. Murad Y. Abu-Farsakh	Dr. Xiaofeng Liu
Dr. Alberto Arroyo	Dr. Thomas Morrow (SWRI)
Dr. Sazzad Bin-Shafique	Dr. T. Papagiannakis, Chair
Dr. A. Chowdhury (SWRI)	Dr. Ruoting Pei
Dr. Manuel Diaz	Dr. Hatim Sharif
Dr. Samer Dessouky	Dr. Heather Shipley
Dr. Richard French	Dr. Mijia Yang
Dr. Drew Johnson	Dr. Jose Weissmann



Environmental laboratory

Master Program Coordinator:

Jose Weissmann, Ph.D. P.E.
jose.weissmann@utsa.edu
(210) 458-5595

Doctor of Philosophy Degree in Environmental Science and Engineering

The CEE Department offers a Doctor of Philosophy degree in Environmental Science and Engineering. This program draws on the resources of the College of Sciences and the College of Engineering. Faculty share responsibilities in providing courses, research supervision, and facilities for this program. Areas of research emphasis include water resources, environmental quality, environmental remediation, pollution control, conservation ecology, spatial analysis, remote sensing, and natural hazards. The Ph.D. in Environmental Science and Engineering is awarded to candidates who display an in-depth understanding of the subject matter and demonstrate the ability to make an original contribution to knowledge in their field of specialty.

Program Admission Requirements. In addition to satisfying the University-wide graduate admission requirements, all prospective students must have:

- a Bachelor of Arts or Bachelor of Science degree and a Master of Science degree from an accredited university. The degree should be in biology, ecology, environmental science, chemistry, geology, geography, engineering, or other related scientific discipline.
- a minimum grade point average of 3.0 in upper-division and graduate work. Applicants with only a Bachelor of Science degree may apply to the program and will be considered on a case-by-case basis.
- Applicants whose native language is not English must score at least 550 on the Test of English as a Foreign Language (TOEFL; paper version).
- Three letters of recommendation from persons familiar with the applicant's academic potential, Graduate Record Examination (GRE) scores, a letter of research interest, and résumé/CV by the applicant are required and should be sent to the Doctoral Studies Committee Chair. Incomplete applications will not be considered until all required items are in an applicant's file.

The academic overview of this PhD program is effected by the Doctoral Studies Committee (DSC) which is comprised of members elected from the program faculty.

Degree Requirements. The Ph.D. in Environmental Science and Engineering requires students to complete a minimum of 60 semester credit hours beyond the master's degree. This coursework includes courses that have been designed to provide advanced instruction in areas considered to form the foundation for the disciplines of environmental science and engineering. Enrollment in the Graduate Seminar is required for a minimum of 6 semester credit hours. A minimum of 15 semester credit hours of Doctoral Research and 15 semester credit hours minimum of Doctoral Dissertation must be completed and applied for graduation. Students can apply, with approval from their Chair Advisor, up to 12 semester credit hours of graduate coursework to elective courses, if not applied toward their M.S. degree. Students with only a baccalaureate degree are required to have a minimum of 75 semester credit hours to graduate with approval of the DSC.

ESE Ph.D. Program Faculty. The ESE Ph.D. faculty is drawn from the Department of CEE, Geology, Chemistry, Biology and Public Policy. The faculty, currently numbering 16, includes:

Dr. Stephan Bach	Dr. Kyle Murray
Dr. Sazzad Bin-Shafique	Dr. Ruoting Pei
Dr. Janis Bush	Dr. Ryan Rudnicki
Dr. James Chambers	Dr. Hatim Sharif
Dr. Alan Dutton	Dr. Heather Shipley
Dr. Richard French	Dr. Oscar Van Auken
Dr. Judy Haschenburger	Dr. Hongjie Xie
Dr. Drew Johnson	Dr. T. Papagiannakis

Ph.D. Program Director & DSC Chair:

T. Papagiannakis, Ph.D. P.E.
at.papagiannakis@utsa.edu
(210) 458-7517

For more information about Graduate programs in CE, please visit:

<http://engineering.utsa.edu/CE/curriculum.html>