

# Welcome to the DEPARTMENT OF CIVIL, ARCHITECTURAL AND ENVIRONMENTAL ENGINEERING at The University of Texas at Austin

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Our mission is to provide our students a broad, fundamental, and flexible program and to extend engineering knowledge through cutting-edge research. We strive for excellence in all aspects of engineering teaching and research, ranging from the fundamental to the applied. Our faculty are dedicated to active learning that will provide a basis for life-long development, to instilling a sense of professional responsibility, and to service to our society. We seek to provide an environment that promotes teamwork and values integrity and honesty in all efforts.

We offer our students:

- A variety of courses of study developed by faculty with international reputations
- Teaching and research with a strong focus on civil engineering applications and design in the areas of architectural engineering, geotechnical engineering, environmental and water resources engineering, transportation, structures, construction materials, and construction engineering and project management
- The opportunity to join outstanding undergraduate and graduate student groups made up of individuals from diverse cultural and ethnic backgrounds
- Support from an excellent administrative and technical staff

In the 2012 edition of *U.S. News and World Report* our graduate program in civil engineering ranked third in the nation; our environmental and water resources engineering graduate program was ranked fourth. Our undergraduate program in civil engineering was ranked fourth in the nation.

We consider our excellent students to be our greatest asset and are very proud of our graduates as they go on to successful and varied careers.

I invite you to look over this information and then contact us at 512/471-4921 with any questions.

Sharon L. Wood, Chair

# CAEE Fact Sheet

## Department of Civil, Architectural and Environmental Engineering

### VISION

A Department of Civil, Architectural and Environmental Engineering recognized worldwide for excellence in engineering education, creation of knowledge, and leadership in professional and public service.

### MISSION

The mission of the Department of Civil, Architectural and Environmental Engineering encompasses excellence in undergraduate and graduate education, research, and public service. We will

- educate the next generation of engineering leaders to formulate and solve complex problems of importance to society, to collaborate as productive team members, to engage in life-long learning, and to act professionally and ethically;
- extend engineering knowledge across the breadth of the discipline and beyond through creative, innovative research ranging from the fundamental to the applied;
- facilitate the understanding and use of new ideas, technologies, and practices for the betterment of society through service and leadership in local, state, national, and international communities.

### UNDERGRADUATE DEGREE PROGRAMS

*Bachelor of Science in Civil Engineering*  
Civil Engineering is the segment of the engineering profession that strives to provide for the basic needs of humanity. The civil engineer is involved with the physical environment through the planning, design, construction, and operation of building and housing systems, transportation systems, and systems for the protection and use of air and water resources. The current curriculum in Civil Engineering is 125 semester credit hours.

Undergraduates can choose technical electives from a variety of areas of specialization within civil engineering including: construction engineering and project management, environmental engineering, geotechnical engineering, structures, construction materials, transportation, and water resources engineering.

### *Bachelor of Science in*

### *Architectural Engineering*

The curriculum in the Architectural Engineering program totals 126 semester credit hours. It offers training in the fundamentals of engineering, with specialization in structures, building energy and environments, and building construction/materials. The curriculum affords the student the opportunity to attain competence in the structural design of buildings. Environmental control systems courses permit graduates to integrate modern electrical, mechanical, and utility distribution systems with the structural and architectural elements of buildings. Courses in construction methods and project management offer the student an opportunity to obtain a versatile background suitable for all areas of the building industry.

### *Dual Degree Program in Architectural Engineering and Architecture*

A program that leads to both the Bachelor of Science in Architectural Engineering degree and the Bachelor of Architecture degree is available to qualified students. The program combines the course requirements of both degrees and requires six years for completion.

### GRADUATE DEGREE PROGRAMS

The department offers three Master of Science in Engineering degrees in the following majors: Architectural Engineering, Civil Engineering, Environmental and Water Resources Engineering. The Doctor of Philosophy degree is offered in Civil Engineering. Graduate students may specialize in architectural engineering, building energy and environments, construction engineering and project management, construction materials, environmental and water resources engineering, geotechnical engineering, ocean engineering, structural engineering, or transportation engineering.

### FACULTY

The department's outstanding faculty are involved in both teaching and research, and they are recognized nationally and internationally as leaders in their individual fields. Over seventy individual faculty, adjuncts, lecturers and assistant instructors make up the teaching staff of the department. Fourteen faculty are members of the

National Academy of Engineering (NAE), five are actively teaching and nine are not actively teaching. NAE was established in 1964, and election to membership is the engineering profession's highest distinction.

### STUDENT STATISTICS

#### *Undergraduate Enrollment*

The Fall 2011 total undergraduate enrollment in the department was 785. This consisted of 226 students enrolled in the architectural engineering program, and 559 students enrolled in the civil engineering program.

#### *Graduate Enrollment*

The Fall 2011 total graduate enrollment in the department was 430, with 236 students pursuing the M.S. degree, and 194 students pursuing the Ph.D.

### 2010-2011 DEGREES GRANTED

#### *Undergraduate*

In the 2010-2011 academic year ending with Summer 2011 graduation, the department awarded 146 Bachelor of Science degrees; 114 by students enrolled in the civil engineering program and 32 by students in the architectural engineering program.

#### *Graduate*

In the 2010-2011 academic year, a total of 160 graduate degrees were awarded in the department. This included: 90 M.S. in Civil Engineering, 34 M.S. in Environmental and Water Resources Engineering, 9 M.S. in Architectural Engineering, and 27 Ph.D.s in Civil Engineering.

### FOR MORE INFORMATION CONTACT

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