ZACHARY DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Overview

Civil engineers plan, design, supervise the construction, operate, maintain, inspect, retrofit, and manage many of the facilities and systems in both public and private sectors that are essential to modern life. The civil engineering profession is one of the most stable and most diverse of the engineering disciplines. Civil engineers are employed by consulting firms, public agencies, and start and operate their own business. Workplaces range from construction sites to design offices. Most civil engineers work with some engineering or construction aspect of private and/or public facilities, such as airports, bridges, buildings, coastal structures, dams, environmental remediation of contaminated sites, harbors, highways, offshore structures, pipelines, railroads, transportation systems, tunnels, water collection systems, water distribution systems, water and wastewater treatment facilities, and waterways. Civil engineers are on the forefront of applying the newest technology innovations in engineering and construction.

Civil engineering projects are unique because they require individual planning, analysis, design, construction supervision, performance monitoring, management and retrofitting. Civil engineering projects often require technical, governmental, legal, financial, and social evaluations. The primary objective is to provide the best service for the users while minimizing costs and other undesirable impacts.

The mission of the Zachry Department of Civil and Environmental Engineering (http://engineering.tamu.edu/civil) at Texas A&M University is to prepare our graduates to become professional engineers and leaders in the civil engineering profession by providing our students with a solid education that will enable them to integrate fundamental scientific engineering principles and that will couple with the latest technological advances to facilitate the development of their problem solving skills. Additionally, the department provides opportunities for enhancement of the students’ educational experience through meaningful interactions with the profession, professionally-centered student activities and exposure to the broad field of civil engineering through seminars, practitioner visits, and Professional Day activities.

The faculty of the Zachry Department of Civil and Environmental Engineering strives to ensure that our ever-evolving educational programs accomplish several objectives. First, our faculty must prepare the students to address the current and future civil engineering needs of the State of Texas, the nation and the world by being able to recognize the important geopolitical and public policy needs; and solve technical problems. In addition, the Department provides a curriculum that integrates scientific and technical knowledge with an appreciation for social, economic and political concerns. The curriculum and programs provide opportunities for our students to:

1. build leadership skills,
2. learn professionalism and ethical responsibility, and
3. develop and understanding of the need to engage in lifelong learning.

Finally, the faculty of the Zachry Department of Civil and Environmental Engineering at Texas A&M University promotes the highest academic standards of excellence, quality, and ethics in both our undergraduate and graduate programs, and in doing so create both a culture of excellence and a community of scholars. Through our programs, our faculty and graduates provide local, state, national, and international leadership to a profession that must solve the civil engineering problems facing an increasingly complex society.

The program educational objectives for the undergraduate civil engineering program within the Department of Civil and Environmental Engineering at Texas A&M University are to produce graduates:

1. who are prepared to enter civil engineering practice and/or continue their education through study in graduate and professional programs,
2. most of whom will become practicing civil engineers with most of these becoming licensed professional engineers, and
3. many of whom will pursue advanced studies.

The undergraduate program in civil engineering within the Zachry Department of Civil and Environmental Engineering at Texas A&M is accredited by the Engineering Accreditation Commission of ABET, www.abet.org. Graduate programs in civil engineering are also available. These programs allow further specialization and offer more in-depth study to address more complex technical and management issues. Graduate degrees also offer additional employment opportunities.

Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

Majors

- Bachelor of Science in Civil Engineering, Coastal and Ocean Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/coastal-ocean-engineering-track)
- Bachelor of Science in Civil Engineering, Construction Engineering and Management Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/construction-engineering-management-track)
- Bachelor of Science in Civil Engineering, Environmental Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/environmental-engineering-track)
- Bachelor of Science in Civil Engineering, General Civil Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/general-civil-engineering-track)
- Bachelor of Science in Civil Engineering, Geotechnical Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/geotechnical-engineering-track)
- Bachelor of Science in Civil Engineering, Structural Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/structural-engineering-track)
- Bachelor of Science in Civil Engineering, Transportation Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/transportation-engineering-track)
- Bachelor of Science in Civil Engineering, Water Resources Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/water-resources-engineering-track)
- Bachelor of Science in Environmental Engineering (http://catalog.tamu.edu/undergraduate/engineering/civil/environmental-engineering-bs)
Faculty

Abdel-Wahab, Ahmed I, Professor
Civil & Environmental Engineering
PHD, Texas A&M University, 2003

Abedi Mashhadimighani, Sara,
Civil & Environmental Engineering
PHD, University of Southern California, 2012

Appleton, Robert A, Associate Professor of the Practice
Civil & Environmental Engineering
BS, Texas A & M University, 1984

Aubeny, Charles P, Professor
Civil & Environmental Engineering
PHD, Massachusetts Inst of Technology, 1992

Autenrieth, Robin L, Professor
Civil & Environmental Engineering
PHD, Clarkson University, 1986

Banks, Margaret K, Distinguished Professor
Civil & Environmental Engineering
PHD, Duke University, 1989

Barroso, Luciana R, Associate Professor
Civil & Environmental Engineering
PHD, Stanford University, 1999

Batchelor, Bill, Senior Professor
Civil & Environmental Engineering
PHD, Cornell University, 1976

Birely, Anna C, Associate Professor
Civil & Environmental Engineering
PHD, University of Washington, 2012

Birgisson, Bjorn, Professor
Civil & Environmental Engineering
PHD, University of Minnesota, 1996

Bracci, Joseph M, Professor
Civil & Environmental Engineering
PHD, University at Buffalo - SUNY, 1992

Brackin, Michael S, Instructional Assistant Professor
Civil & Environmental Engineering
PHD, Texas A&M University, 2017

Briaud, Jean-Louis, Distinguished Professor
Civil & Environmental Engineering
PHD, University of Ottawa, Canada, 1979

Brumbelow, James K, Associate Professor
Civil & Environmental Engineering
PHD, Georgia Institute of Technology, 2001

Burris, Mark W, Professor
Civil & Environmental Engineering
DOC, University of South Florida, 2001

Cahill, Anthony T, Associate Professor
Civil & Environmental Engineering
PHD, Johns Hopkins University, 1998

Chang, Kuang-An, Professor
Civil & Environmental Engineering
PHD, Cornell University, 1999

Chellam, Shankararaman, Professor
Civil & Environmental Engineering
PHD, Rice University, 1995

Chen, Hamn C, Professor
Civil & Environmental Engineering
PHD, University of Iowa, 1982

Chinn, Timothy D, Professor of the Practice
Civil & Environmental Engineering
BS, Texas A&M University, 1980

Chu, Kung-Hui, Associate Professor
Civil & Environmental Engineering
PHD, University of California, Berkeley, 1998

Damnjanovic, Ivan, Associate Professor
Civil & Environmental Engineering
PHD, University of Texas, 2006

England, Peter S, Instructional Associate Professor
Civil & Environmental Engineering
PHD, Texas Tech University, 2011

Ford, David N, Professor
Civil & Environmental Engineering
PHD, Massachusetts Inst of Technology, 1995

Gao, Huilin, Associate Professor
Civil & Environmental Engineering
PHD, Princeton University, 2005

Gharaibeh, Nasir G, Associate Professor
Civil & Environmental Engineering
PHD, University of Illinois, 1997

Grasley, Zachary C, Professor
Civil & Environmental Engineering
PHD, University of Illinois Urbana Champaign, 2006

Hawkins Jr, Harvey E, Professor
Civil & Environmental Engineering
PHD, Texas A&M University, 1993

Hueste, Marybeth D, Professor
Civil & Environmental Engineering
PHD, University of Michigan, 1997

Hurlebaus, Stefan, Professor
Civil & Environmental Engineering
PHD, University of Stuttgart, Germany, 2002

Hutchinson, Richard N, Instructional Assistant Professor
Civil & Environmental Engineering
MEN, Texas A&M University, 2001

Jones, Harry L, Senior Professor
Civil & Environmental Engineering
PHD, University of Illinois, 1969
Kaihatu, James M, Professor
Civil & Environmental Engineering
PHD, University of Delaware, 1994

Keating, Peter B, Associate Professor
Civil & Environmental Engineering
PHD, Lehigh University, 1987

Koliou, Maria, Assistant Professor
Civil & Environmental Engineering
PHD, University of Buffalo - The State University of New York, 2014

Little, Dallas N, Professor
Civil & Environmental Engineering
PHD, Texas A&M University, 1979

London, Mara R, Instructional Associate Professor
Civil & Environmental Engineering
PHD, University of Texas at Austin, 2009

Lord, Dominique, Professor
Civil & Environmental Engineering
PHD, University of Toronto, 2000

Lowery Jr, Lee L, Senior Professor
Civil & Environmental Engineering
PHD, Texas A&M University, 1967

Lytton, Robert L, Professor
Civil & Environmental Engineering
PHD, University of Texas - Austin, 1967

Ma, Xingmao, Associate Professor
Civil & Environmental Engineering
PHD, Missouri University of Science and Technology, 2004

Mander, John B, Professor
Civil & Environmental Engineering
PHD, University of Canterbury, 1984

Martin, Amy E, Professor
Civil & Environmental Engineering
PHD, University of California, Berkeley, 1997

Masad, Eyad, Professor
Civil & Environmental Engineering
PHD, Washington State University, 1998

Medina Cetina, Zenon, Associate Professor
Civil & Environmental Engineering
PHD, John Hopkins University, 2007
PHD, Johns Hopkins University, 2007

Mercier, Richard S, Professor
Civil & Environmental Engineering
PHD, Massachusetts Inst of Technology, 1985

Miller, Gretchen R, Associate Professor
Civil & Environmental Engineering
PHD, University of California, Berkeley, 2009

Mohtar, Rabi H, Professor
Civil & Environmental Engineering
PHD, Michigan State University, 1994

Mostafavidarani, Ali, Assistant Professor
Civil & Environmental Engineering
PHD, Purdue University, 2013

Nelson Jr, James K, Professor of Instruction
Civil & Environmental Engineering
PHD, University of Houston, 1983

Niedzwecki, John M, Professor
Civil & Environmental Engineering
PHD, The Catholic University of America, 1977

Noshadravan, Arash, Assistant Professor
Civil & Environmental Engineering
PHD, University of Southern California, 2011

Olivera, Francisco, Associate Professor
Civil & Environmental Engineering
PHD, University of Texas, 1996

Otey, Jeffrey M, Instructional Assistant Professor
Civil & Environmental Engineering
PHD, Universitat Politècnica de València, Spain, 2017

Paal, Stephanie G, Assistant Professor
Civil & Environmental Engineering
PHD, Georgia Institute of Technology, 2013

Pittman, Leslie W, Associate Professor of the Practice
Civil & Environmental Engineering
MS, Colorado State University, 1978

Quadrifiglio, Luca, Associate Professor
Civil & Environmental Engineering
PHD, University of Southern California, 2005

Rajagopal, Kumbakonam, University Distinguished Professor
Civil & Environmental Engineering
PHD, University of Minnesota, 1978

Reddy, Junuthula N, University Distinguished Professor
Civil & Environmental Engineering
PHD, University of Alabama at Huntsville, 1974

Rodriguez, Ignacio J, Distinguished Professor
Civil & Environmental Engineering
PHD, Colorado State University, 1967

Rogers Jr, Alton G, Associate Professor of the Practice
Civil & Environmental Engineering
BS, Texas A&M University, 1976

Sakhaei Far, Maryam S, Assistant Professor
Civil & Environmental Engineering
PHD, North Carolina State University, 2011

Sanchez Castilla, Marcelo Javier, Professor
Civil & Environmental Engineering
PHD, Universidad Politecnica de Catalunya (UPC), Barcelona, Spain, 2004

Scarfuto, Jessica C, Assistant Lecturer
Civil & Environmental Engineering
MS, Texas A&M University, 2014
Shidlovskaya, Anna V, Visiting Professor
Civil & Environmental Engineering
PHD, National Mineral Resources University, 2005
PHD, National Mineral Resources University, Russia, 2005

Sideris, Petros, Assistant Professor
Civil & Environmental Engineering
PHD, University of Buffalo, State University of New York, 2012

Socolofsky, Scott A, Professor
Civil & Environmental Engineering
PHD, Massachusetts Inst of Technology, 2001

Talebpour, Alireza, Assistant Professor
Civil & Environmental Engineering
PHD, Northwestern University, 2015

Tracy, John C, Professor
Civil & Environmental Engineering
PHD, University of California Davis, 1989

Walewski, John A, Associate Professor of the Practice
Civil & Environmental Engineering
PHD, University of Texas, 2005

Wang, Xiubin B, Associate Professor
Civil & Environmental Engineering
PHD, University of California, Irvine, 2001

Wolf, Charles M, Professor of the Practice
Civil & Environmental Engineering
PHD, Texas A&M University, 2001

Wurbs, Ralph A, Senior Professor
Civil & Environmental Engineering
PHD, Colorado State University, 1978

Yarnold, Matthew T, Assistant Professor
Civil & Environmental Engineering
PHD, Drexel University, 2013

Ying, Qi, Associate Professor
Civil & Environmental Engineering
PHD, University of California, Davis, 2004

Zhang, Yunlong, Professor
Civil & Environmental Engineering
PHD, Virginia Tech, 1996

Zollinger, Dan, Professor
Civil & Environmental Engineering
PHD, University of Illinois at Urbana-Champaign, 1989