

1. build leadership skills,
2. learn professionalism and ethical responsibility, and
3. develop an 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 and environmental engineering problems facing an increasingly complex society.

**B.S. in Civil Engineering**

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 (http://www.abet.org/).

Students pursuing a B.S. in Civil Engineering can follow a general track or specialize in one of seven areas. Eight tracks are available for undergraduate study within Civil Engineering as follows:

1. General Civil Engineering
2. Coastal Engineering
3. Construction Engineering and Management
4. Geotechnical Engineering
5. Environmental Engineering
6. Structural Engineering
7. Transportation Engineering
8. Water Resources Engineering

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

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.

**B.S. in Environmental Engineering**

The program educational objectives for the undergraduate environmental 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 environmental engineering practice and/or continue their education through study in graduate and professional programs,
2. most of whom will become practicing environmental engineers with most of these becoming licensed professional engineers, and
3. many of whom will pursue advanced studies.

Our environmental engineering curriculum is unique in that it:

1. Has a specific focus on the protection of public and environmental health by solving environmental challenges;
2. Showcases a broad range of coursework to pursue specific environmental interests in natural or engineered systems;
3. Is multidisciplinary in every approach, melding earth science, life science, chemistry, social science and engineering;
4. Provides the tools to develop solutions to solve emerging and existing issues such as water treatment, climate change, and other environmental challenges.

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

Faculty

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

Aubeny, Charles P, Professor
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PHD, Stanford University, 1999

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Civil Engineering
PHD, University of Washington, 2012

Birgisson, Bjorn, Professor
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Civil Engineering  
PHD, Texas A&M University, 1967

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Mostafavidarani, Ali, Associate Professor  
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Niedzwecki, John M, Professor  
Civil Engineering  
PHD, The Catholic University of America, 1977

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Civil Engineering  
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Civil Engineering  
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Rogers Jr, Alton G, Associate Professor of the Practice  
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Sakhaei Far, Maryam S, Assistant Professor  
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PHD, North Carolina State University, 2011

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Civil Engineering  
PHD, Universidad Politecnica de Catalunya (UPC), Barcelona, Spain, 2004

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Civil Engineering  
MS, Texas A&M University, 2014
Sideris, Petros, Assistant Professor
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PHD, University of Buffalo, State University of New York, 2012

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Civil Engineering
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Torres, Jacob, Senior Lecturer
Civil Engineering
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Wang, Xibin B, Professor
Civil Engineering
PHD, University of California, Irvine, 2001

Wolf, Charles M, Professor of the Practice
Civil Engineering
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Wurbs, Ralph A, Senior Professor
Civil Engineering
PHD, Colorado State University, 1978

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

Ying, Qi, Associate Professor
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PHD, University of California, Davis, 2004

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

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

Majors

- Bachelor of Science in Civil Engineering, Coastal and Ocean Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/coastal-ocean-engineering-track/)
- Bachelor of Science in Civil Engineering, Construction Engineering and Management Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/construction-engineering-management-track/)
- Bachelor of Science in Civil Engineering, Environmental Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/environmental-engineering-track/)
- Bachelor of Science in Civil Engineering, General Civil Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/general-civil-engineering-track/)
- Bachelor of Science in Civil Engineering, Geotechnical Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/geotechnical-engineering-track/)