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 businesses. 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.

Environmental engineers use a multidisciplinary approach to solve environmental challenges facing public and environmental health, such as water treatment, waste management, and climate change. Environmental engineers work to protect human health and welfare while minimizing the adverse effects of human activity on the environment. Environmental engineers are also employed by consulting firms, public agencies, and start and operate their own businesses.

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 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 engineering abilities to successfully and effectively solve the complex engineering problems facing society.

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

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

Noshadravan, Arash, Assistant Professor
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PHD, University of Southern California, 2011

Olivera, Francisco, Associate Professor
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PHD, University of Texas, 1996

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Puppala, Anand, Professor
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Quadri foglio, Luca, Associate Professor
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Rogers Jr, Alton G, Associate Professor of the Practice
Civil Engineering
BS, Texas A&M University, 1976

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

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

Scarfuto, Jessica C, Lecturer
Civil Engineering
MS, Texas A&M University, 2014
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/)
- Bachelor of Science in Civil Engineering, Structural Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/structural-engineering-track/)
- Bachelor of Science in Civil Engineering, Transportation Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/transportation-engineering-track/)
- Bachelor of Science in Civil Engineering, Water Resources Engineering Track (https://currcatalog.tamu.edu/undergraduate/engineering/civil/bs/water-resources-engineering-track/)
- Bachelor of Science in Environmental Engineering (https://currcatalog.tamu.edu/undergraduate/engineering/civil/environmental-engineering-bs/)