BACHELOR OF SCIENCE IN CIVIL ENGINEERING

WHAT IS CIVIL ENGINEERING?

Civil engineering is the professional discipline that focuses on the development and maintenance of both man-made and natural infrastructure. Civil engineers produce the facilities on which modern life depends, including roads, bridges, buildings, offshore structures, airports and levees, as well as the infrastructure required for the supply of clean water.

Civil engineering includes a multitude of sub-disciplines including environmental engineering, structural engineering, geotechnical engineering, materials engineering, water resources engineering, geosensing systems engineering and more. Civil engineering offers a very wide variety of opportunities!

CAREERS IN CIVIL ENGINEERING

Civil engineers find employment opportunities in both the private and public sectors. Career opportunities in civil engineering are excellent – especially in Houston, the Energy Capital of the World. Employment for civil engineers is expected to increase significantly, spurred by ongoing emphasis to improve our nation's infrastructure.

A 2022 salary survey produced by Payscale.com found that new civil engineering graduates earned an average base salary of \$69,380.

WHY EARN YOUR CIVIL ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

ACADEMICS

The civil engineering undergraduate program at the University of Houston Cullen College of Engineering is rigorous and hands-on. The program is designed to offer undergraduate students a broad-based education in the freshman and sophomore years and a more focused education in the junior and senior years. The jobs available in the field of civil and environmental engineering are diverse, so a broad base is provided to prepare graduates for a variety of positions. Luckily, the civil and environmental engineering department has one of the most loyal and active alumni bases in the entire college, with UH civil engineering graduates employed in top positions throughout the region – so landing your dream job, internship, co-op or fellowship shouldn't be too difficult!

Learn more at www.cive.uh.edu/programs/undergraduate







RESEARCH 🏖

The civil engineering undergraduate program at the University of Houston Cullen College of Engineering is well-known for its research, and faculty in the department have expertise in environmental engineering, geotechnical and materials engineering, structural engineering, oceans and water resources engineering and geosensing systems engineering. The civil and environmental engineering department is also home to the NSF-funded National Center for Airborne Laser Mapping (NCALM). Undergraduate students have the opportunity to become involved in the fascinating research being conducted by faculty members and graduate students in the department.

Learn more at www.cive.uh.edu/research/overview

SCHOLARSHIPS 🖈

Departmental scholarships for undergraduate students include those endowed by or in memory of M.P. "Pat" Anderson, Charles A. Beyer Houston Contractors Association, Cobb/Fendley, Vishnu and Rohini Divecha, DFI Educational Trust Charles J. Berkel, BGE/Ronald L. Mullinax, R. P. Doss Houston Contractors Association, Jesse G. Gonzalez, Houston Chapter of the American Concrete Institute, Klotz Associates, Herbert and Faye Lum, Structural Consulting Company/Monteith, Jimmie A. Schindewolf, Charles J. Tamborello, Stanford Daniel Ward, Jr., and others. Scholarships are also awarded by the Cullen College of Engineering and by the University of Houston Office of Scholarships and Financial Aid. Additionally, the University's internship program allows students to receive career training while helping to finance their education.

Learn more at www.cive.uh.edu/programs/undergraduate/scholarships

STUDENT ORGANIZATIONS

Students are encouraged to join academic and professional organizations to build leadership, communication and networking skills. Members of student organizations receive career guidance from engineering professionals and participate in activities that promote engineering.

The civil and environmental engineering department has a strong student chapter of the American Society of Civil Engineers (ASCE). The UH ASCE chapter engaged in the Regional Concrete Canoe Competition and Steel Bridge Competition each year.

Learn more at www.cive.uh.edu/programs/undergraduate/student-activities

CEE FAST FACTS

390 Total Undergrad Students in Department

208 Total Faculty in Cullen College

\$69,380 Average Salary

21:1 Student-to-Faculty Ratio Across the University



BACHELOR OF SCIENCE IN CIVIL ENGINEERING

ILLUSTRATIVE FOUR-YEAR ACADEMIC PLAN

YEAR 1

SEMESTER 1			SEMESTER 2			Total
ENGI 1100	Introduction to Engineering	1	CHEM 1312	Fundamentals of Chemistry 2*	3	
CHEM 1311	Fundamentals of Chemistry*	3	CHEM 1112	Fundamentals of Chemistry 2 Lab	1	
CHEM 1111	Fundamentals of Chemistry Lab	1	ENGI 1331	Computing for Engineers	3	
ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II*	3	
MATH 2413	Calculus I*	4	MATH 2414	Calculus II*	4	
GOVT 2306	US & Texas Constitution & Politics*	3	PHYS 2325	University Physics	3	



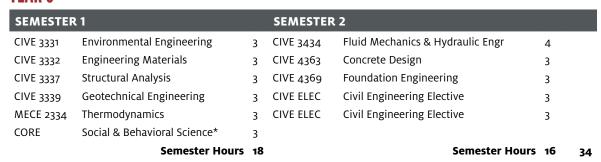
Semester Hours 15 Semester Hours 17 32

YEAR 2

SEMESTER 1			SEMESTER 2				
	GEOL 1330	Physical Geology	3	CIVE 2332	Mechanics of Solids	3	
	or BIOL 1361	Biology for Science Majors I		MECE 3336	Mechanics II (Dynamics)	3	
	ENGR 2301	Mechanics I	3	INDE 2333	Engineering Statistics I	3	
	MATH 2415	Calculus III	4	ENGI 2304	Technical Communications	3	
	MECT 3341	Computer Aided Drafting I	3	MATH 3321	Engineering Mathematics	3	
	PHYS 2326	University Physics II	3	GOVT 2305	US Government*	3	
Semester Hours 16				Semester Hours 18 3			



YEAR 3





YEAR 4

SEMESTER 1			SEMESTER	2		
CIVE 4311	Professional Practice in Civil Engr	3	CIVE 4312	Civil Engineering Design Project	3	
CIVE 4332	Hydrology	3	CIVE ELEC	Civil Engineering Elective	3	
CIVE 4333	Water & Wastewater Treatment	3	CIVE ELEC	Civil Engineering Elective	3	
HIST 1301	The United States to 1877*	3	HIST 1302	The United States Since 1877*	3	
CORE	Language, Philosophy & Culture *	3	CORE	Creative Arts*	3	
	Semester Hours	15	Semester Hours 15			
				TOTAL SEMESTER HOLE	25	130

*Students should meet with their academic advisor to formulate their own plan. Course offerings are subject to change.

FOR MORE INFORMATION

Get in touch with us and schedule a virtual or in person meeting: https://www.egr.uh.edu/academics/undergraduate-programs

UH Department of Civil and Environmental Engineering: www.cive.uh.edu

Undergraduate Program: www.cive.uh.edu/programs/undergraduate | Email: civil@egr.uh.edu

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