

# BACHELOR OF SCIENCE IN CONSTRUCTION ENGINEERING



## WHAT IS CONSTRUCTION ENGINEERING?

The BS in Construction Engineering program combines civil engineering and business principles to produce graduates who can design and manage the construction processes that create and rehabilitate the public infrastructure. This includes design and construction of commercial buildings, airports, dams, roads, utilities, bridges, residential communities and schools.

## CAREERS IN CONSTRUCTION ENGINEERING

Employment opportunities for construction engineers are available in both the private and public sectors. Main responsibilities for this career track include on-site management and observation of construction projects, and fostering strong business-client relationships to ensure these projects are completed meeting budget and timeline requirements.

According to a 2022 salary survey produced by Payscale.com, a construction engineer can expect to earn a starting salary of \$70,412, with that climbing closer to \$80,000 after a few years of accrued experience.

## WHY EARN YOUR CONSTRUCTION ENGINEERING DEGREE AT THE UNIVERSITY OF HOUSTON?

### ACADEMICS

The construction engineering undergraduate degree program is a part of the Department of Civil and Environmental Engineering. Construction engineering undergraduates will take all of their major coursework at UH at Katy, located near the Grand Parkway & I-10, in Katy, Texas.

Overall, expect this program to be rigorous and hands-on. Luckily, this department has one of the most loyal and active alumni bases in the entire college, with graduates employed in top positions throughout the region so landing your dream job, internship, co-op or fellowship shouldn't be too difficult!

### RESEARCH

The civil & environmental engineering department 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.cee.uh.edu/research/overview](http://www.cee.uh.edu/research/overview)

## 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.cee.uh.edu/programs/undergraduate/student-activities](http://www.cee.uh.edu/programs/undergraduate/student-activities)

## ABOUT UH AT KATY

The UH at Katy instructional site is an official part of the UH central campus. Completed in Fall 2019, the three-story, 80,000-square-foot-facility houses numerous programs from the UH Cullen College of Engineering, and is home to the prestigious Subsea Engineering graduate program—the first of its kind in the nation. Computer Engineering & Analytics, Systems Engineering and Construction Engineering are exclusively offered at UH at Katy.

UH at Katy is also one of the sites of the UH/HCC Engineering Academy. The UH/HCC Engineering Academy is a partnership with Houston Community College (HCC) where students are co-enrolled at both institutions. Students who are interested in computer engineering and analytics, systems or construction engineering and would like to complete all four years of their degree in the Greater Katy Area, may want to consider the cost-effective opportunities that the UH/HCC Engineering Academy has to offer. UH at Katy is located near the Grand Parkway & I-10, in Katy, Texas.

Learn more at <https://www.egr.uh.edu/engineering-academies/hcc>

## CEE FAST FACTS

**390** Total Undergraduate Students

**280** Total Faculty

**\$70,412** Average Salary

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



Cullen College of Engineering  
UNIVERSITY OF HOUSTON

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## FOUR-YEAR ACADEMIC MAP 2025-2026

### YEAR 1

SEMESTER 1			SEMESTER 2			Total
ENGL 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	ENGL 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 2305	US & Texas Constitution and Politics	3	PHYS 2325	University Physics	3	
Semester Hours 15			Semester Hours 17			32

### YEAR 2

SEMESTER 1			SEMESTER 2			Total
INDE 2333	Engineering Statistics I	3	CIVE 2332	Mechanics of Solids	3	
ENGR 2301	Mechanics I	3	CNE 2211	Construction Engineering Fundamentals	2	
MATH 2415	Calculus III	4	INDE 3333	Engineering Economy	3	
GOVT 2306	U.S. Government	3	ENGL 2304	Technical Communications	3	
PHYS 2326	University Physics II	3	MATH 3321	Engineering Mathematics	3	
			CORE	Social & Behavioral Science	3	
Semester Hours 16			Semester Hours 17			33

### YEAR 3

SEMESTER 1			SEMESTER 2			Total
CNE 3311	Construction Engineering Equipment & Methods	3	CNE 3301	Construction Safety Engineering	3	
CNE 3310	Construction Scheduling Planning & Control	3	CNE 3321	Construction Engineering Management	3	
CIVE 3332	Engineering Materials	3	CNE 3322	Legal Aspects of Construction Engineering	3	
CIVE 3337	Structural Analysis	3	CNE 3333	Building Information Modeling	3	
INDE 3330	Financial & Cost Management	3	CNE ELEC	Construction Engineering Elective	3	
CIVE 3380	Surveying	3				
Semester Hours 18			Semester Hours 15			33

### YEAR 4

SEMESTER 1			SEMESTER 2			Total
CIVE 4311	Professional Practice in Civil Engr	3	CNE 4312	Construction Engineering Design Project	3	
CNE 4321	Construction Engineering Estimating	3	CNE ELEC	Construction Engineering Elective	3	
CNE ELEC	Construction Engineering Elective	3	CNE ELEC	Construction Engineering Elective	3	
HIST 1301	U.S. since 1877	3	HIST 1302	U.S. since 1877	3	
CORE	Language, Philosophy & Culture	3	CORE	Creative Arts	3	
Semester Hours		15	Semester Hours		15	30
TOTAL SEMESTER HOURS						128

Starting in fall 2025, major courses are offered at the UH Sugar Land Instructional Site. Courses in bold are important prerequisites. Students should meet with their academic advisor at least once per semester to formulate a degree completion plan.

## FOR MORE INFORMATION

Admissions  
Requirements  
Webpage



UH Cullen College of Engineering: <https://www.egr.uh.edu>  
Undergraduate Program: <https://www.egr.uh.edu/academics/undergraduate-programs>  
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