

# COLLEGE OF ENGINEERING

## Bachelor of Science, Construction Engineering

### Four-Year Academic Map 2024-2025

YEAR 1	Semester 1 Fall			Semester 2 Spring			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 and Politics *	3	PHYS 2325	University Physics	3	
Semester Hours		15	Semester Hours		17	32	
YEAR 2	Semester 1 Fall			Semester 2 Spring			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	MECE 3336	Mechanics II	3	
	GOVT 2305	US Government *	3	ENGI 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 Fall			Semester 2 Spring			Total
	CNE 3311	Construction Engineering Methods and Cost Estimating	3	CNE 3301	Construction Safety Engineering	3	
	CNE 3310	Construction Engineering Project Management	3	CIVE 4363	Concrete Design	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	
	CIVE 3339	Geotechnical Engineering	3	INDE 3333	Engineering Economy I	3	
	CIVE 3380	Surveying	3				
Semester Hours		18	Semester Hours		15	33	
YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	CNE 4326	Smart and Sustainable Urban Infrastructure	3	CNE 4312	Construction Engineering Capstone Design	3	
	CIVE 3331	Environmental Engineering	3	CNE 4322	Construction Engineering Best Practices	3	
	CNE 4323	Health Care Infrastructure Design and Construction	3	CNE 4325	Utility System Construction	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	30
						128	

\*State of Texas Core Curriculum

All Major Courses will be taken out of the UH at Katy building

Students should meet with their academic advisor to formulate their own plan.