

COLLEGE OF ENGINEERING

Bachelor of Science, Civil Engineering

Four-Year Academic Map 2024-2025

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total	
	CHEM 1311	Fundamentals of Chemistry*	3	CHEM 1312	Fundamentals of Chemistry 2*	3		
	CHEM 1111	Fundamentals of Chemistry Lab	1	CHEM 1112	Fundamentals of Chemistry 2 Lab	1		
	ENGI 1100	Introduction to Engineering	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 I	3		
	Semester Hours			15	Semester Hours			17

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total	
	ENGR 1304	Engineering Graphics	3	CIVE 2332	Mechanics of Solids	3		
	ENGR 2301	Mechanics I (Statics)	3	ENGI 2304	Technical Communications	3		
	MATH 2415	Calculus III	4	INDE 2333	Engineering Statistics I	3		
	PHYS 2326	University Physics II	3	MECE 3336	Mechanics II (Dynamics)	3		
	Science ELEC	Approved Basic Science Elective	3	MATH 3321	Engineering Mathematics	3		
				GOVT 2305	US Government: Congress, President & Courts*	3		
	Semester Hours			16	Semester Hours			18

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total	
	CIVE 3331	Environmental Engineering	3	CIVE 3434	Fluid Mechanics & Hydraulic Engr	4		
	CIVE 3332	Engineering Materials	3	CIVE 4363	Concrete Design	3		
	CIVE 3337	Structural Analysis	3	CIVE 4369	Foundation Engineering	3		
	CIVE 3339	Geotechnical Engineering	3	CIVE ELEC	Civil Engineering Elective	3		
	MECE 2334	Thermodynamics	3	CIVE ELEC	Civil Engineering Elective	3		
	CORE	Social & Behavioral Science*	3					
	Semester Hours			18	Semester Hours			16

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total		
	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 U S to 1877*	3	HIST 1302	The U S Since 1877*	3			
	CORE	Language, Philosophy & Culture*	3	CORE	Creative Arts*	3			
	Semester Hours			15	Semester Hours			15	30
								130	

*State of Texas Core Curriculum

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