



Bachelor of Science in Chemical Engineering
 Recommended 4-Year Course Sequence
 2024-2025 Catalog



FRESHMAN YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
ENGR 1201		Introduction to Engineering		2	ENGL 2311	ENGL 1302	Technical and Business Writing		3
ENGL 1301		College Composition I		3	MATH 2414		Calculus II		4
MATH 2413		Calculus I		4	CHEM 1412		General Chemistry II (Lecture & Lab)		4
CHEM 1311/1111		General Chemistry I (Lecture & Lab)		4	PHYS 2325/2125		University Physics I (Lecture & Lab)		4
HIST 1301		United States History I		3		ENGR 1000	Thriving in Engineering		0
			16	0				15	0

SOPHOMORE YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
	CHEN 2310**	Intro. to Chemical Engineering (Elementary Chem. Engineering)		3	ENGR 2301		Engineering Mechanics: Statics		3
ECON 2301 or ECON 2302		Principles of Macroeconomics or Principles of Microeconomics		3	ENGR 2334	CHEN 3301	Chemical Engineering Thermodynamics I		3
PHYS 2326/2126		University Physics (Lecture and Lab)		4	CHEM 2325/2125		Organic Chemistry II (Lecture & Lab)		4
MATH 2415		Multivariate Calculus (i.e., Calculus III)		4	MATH 2320	MATH 3305	Ordinary Differential Equations		3
CHEM 2323/2123		Organic Chemistry I (Lecture & lab)		4	GOVT 2305	POLS 2305	Federal Government		3
			15	3				16	0

JUNIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
	CHEN 3330	Fluid Mechanics		3		CHEN 3360	Chemical Reaction Engineering		3
	CHEN 3302	Chemical Engineering Thermodynamics II		3		CHEN 3340	Heat Transfer		3
	CHEN 3310	Chemical Engineering Materials		3		CHEN 3320	Mass Transfer		3
	CHEM 3310/3111	Analytical Chemistry (Lecture & Lab)		4		Various	CHEN Approved Elective 3 hours		3
	MATH 3351	Probability and Statistics for Engineers and Scientists		3	PHIL 2306		Introduction to Ethics		3
			0	16				12	3

SENIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
	CHEN 4310	Separation Processes		3		CHEN 4109	Senior Seminar		1
	CHEN 4320	Chemical Engineering Laboratory I		3		CHEN 4371	Chemical Plant Design II		3
	CHEN 4330	Process Control and Safety		3		CHEN 4360	Chemical Engineering Laboratory II		3
	CHEN 4170	Chemical Plant Design I		1		Various	CHEN Approved Elective 3 hours		3
SPCH 1315	CMST 1315	Introduction to Public Speaking	3		HIST 1302		U.S. History II	3	
GOVT 2306	POLS 2306	Introductory Texas Politics	3				Creative Arts Core	3	
			6	10				6	10

Total Credit Hours at Houston Community College	86
Total Credit Hours at UT Tyler	42
Total Credit Hours	128