



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



FRESHMAN YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGR 1201		Introduction to Engineering	2	ENGL 2311		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	4
CHEM 1411		General Chemistry I	4	PHYS 2425		University Physics I	4
HIST 1301		United States History I	3				
COSC 1301*		Intro to Computing (TJC Institutional requirement)	0				
16				15			

SOPHOMORE YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGR 2301		Engineering Mechanics: Statics	3	ENGR 2302**		Engineering Mechanics: Dynamics**	3
SPCH 1315		Introduction to Public Speaking	3	CHEM 2425		Organic Chemistry II	4
MATH 2415		Calculus III	4	PHYS 2426		University Physics II	4
CHEM 2423		Organic Chemistry I	4	MATH 2320		Differential Equations	3
	CHEN 2310	Intro to Chemical Engineering	3		CHEN 3301	Chemical Engineering Thermodynamics I	3
17				17			

JUNIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	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	Analytical Chemistry	3			CHEN Approved Elective	3
	CHEM 3111	Analytical Chemistry Laboratory	1			Creative Arts Core	3
	MATH 3351	Probability and Statistics for Engineers and Scientists	3				
16				15			

SENIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	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		HIST 1303	History of Technology and Innovation in US Society	3
	POLS 2306	Introduction to Texas Politics	3		POLS 2305	Introductory American Government	3
	ECON 2301 OR ECON 2302	Principles of Macroeconomics OR Principles of Microeconomics	3		PHIL 2306	Introduction to Ethics	3
16				16			

Total Credit Hours at Tyler Junior College 65
Total Credit Hours at UT Tyler 63
Total Credit Hours 128

* COSC 1301 Required for AS completion for TJC, not used in UT Tyler Degree Plan

** ENGR 2302 Used as CHEN Approved Elective in CHEN Degree Plan at UT Tyler