

**AS to BS Chemical Engineering**  
**Recommended 4-Year Course Sequence**  
**2024-2025 Catalog**



**FRESHMAN YEAR**

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
ENGR 1201		Intro to Engineering	2	ENGL 1302		Composition II	3
ENGL 1301		Composition I	3	MATH 2414		Calculus II	4
MATH 2413		Calculus I	4	CHEM 1412		General Chemistry II	4
CHEM 1411		General Chemistry	4	PHYS 2425		University Physics	4
HIST 1301		US history I	3				
			16				15

**SOPHOMORE YEAR**

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
PHIL 2306		Intro to Ethics	3	ENGR 2301	ENGR 2301	Engineering Mechanics: Statics; Statics	3
SPCH 1315		Public Speaking	3	CHEM 2425	CHEM 3344/3145	Organic Chemistry II	4
MATH 2415		Multivariate Calculus	4	PHYS 2426		University Physics II	4
CHEM 2423	CHEM 3342/3143	Organic Chemistry I	4	MATH 2320	MATH 3305	Ordinary Differential Equations	3
	CHEM 2310	Intro to Chemical Engineering	3		CHEM 3301	Chemical Engineering Thermodynamics I	3
			17				17

**JUNIOR YEAR**

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
	CHEM 3330	Fluid Mechanics	3		CHEM 3360	Chemical Reaction Engineering	3
	CHEM 3302	Chemical Engineering Thermodynamics II	3		CHEM 3340	Heat Transfer	3
	CHEM 3310	Chemical Engineering Materials	3		CHEM 3320	Mass Transfer	3
	CHEM 3310/3111	Analytical Chemistry (Lecture & Lab)	4			CHEM Approved Elective 3 hours	3
	MATH 3351	Probability and Statistics for Engineers and	3			Creative Arts (Core, 3 hrs.)	3
			16				15

**SENIOR YEAR**

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
	CHEM 4310	Separation Processes	3		CHEM 4109	Senior Seminar	1
	CHEM 4320	Chemical Engineering Laboratory I	3		CHEM 4371	Chemical Plant Design II	3
	CHEM 4330	Process Control and Safety	3		CHEM 4360	Chemical Engineering Laboratory II	3
	CHEM 4170	Chemical Plant Design I	1			CHEM Approved Elective 3 hours	3
	ECON 2301	Principles of Macroeconomics (or Principles of Microeconomics)	3		HIST 1303	History of Technology and Innovation in U.S. Society since 1865	3
	POLS 2306	Introductory Texas Politics	3		POLS 2305	Introductory American Government	3
			16				16

Total Credit Hours at Kilgore College	65
Total Credit Hours at UT Tyler	63
<b>Total Credit Hours</b>	<b>128</b>

Courses highlighted on the pathway can be taken via co-enrollment at UT Tyler.