



Chemistry AS to Bachelor of Science in Chemistry

Recommended 4-Year Course Sequence

2024-2025 Catalog



UT Tyler
THE UNIVERSITY OF TEXAS AT TYLER

FRESHMAN YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGL 1301		College Composition I	3	ENGL 1302 or ENGL 2311		College Composition II or Technical & Business Writing	3
MATH 1342		Statistics	3	MATH 2413		Calculus I	4
EDUC 1300 or COSC 1301		Learning Framework or Introduction to Computing	3	CHEM 1412		General Chemistry II	4
CHEM 1411		General Chemistry I	4	BIOL 1407		Biology for Science Majors II	4
BIOL 1406		Biology for Science Majors I	4				
			17				15

SOPHOMORE YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
HIST 1301		US History I	3	HIST 1302		US History II	3
MATH 2414		Calculus II	4	GOVT 2306		Texas Government	3
GOVT 2305		Federal Government	3			Social Behavioral Sciences Core	3
		Creative Arts Core	3			Language, Philosophy, & Culture Core	3
PHYS 2425		University Physics I	4	PHYS 2426		University Physics II	4
			17				16

JUNIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	CHEM 3352	Physical Chemistry I	3		CHEM 3354	Physical Chemistry II*	3
	CHEM 3153	Physical Chemistry I Lab	1		CHEM 3155	Physical Chemistry II Lab*	1
	CHEM 3346	Macro/Nano Chemistry	3		CHEM 4332	Spectroscopy*	1
	CHEM 3310	Analytical Chemistry	1		CHEM 3320	Inorganic Chemistry	3
	CHEM 3111	Analytical Chemistry Lab	3		CHEM 3121	Inorganic Chemistry Lab	1
	CHEM 3342	Organic Chemistry I	3		CHEM 3344	Organic Chemistry II	3
	CHEM 3143	Organic Chemistry I Lab	1		CHEM 3145	Organic Chemistry II Lab	1
			15				13

SENIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	CHEM 4330	Advanced Inorganic Chemistry	3		CHEM 4312	Instrumental Analysis*	3
	CHEM 4334	Biochemistry I	3		CHEM 4113	Instrumental Analysis Lab*	1
	CHEM 4135	Biochemistry I Lab	1		CHEM 4346	Biochemistry II*	3
	CHEM 4190	Chemical Literature	1		CHEM 4191	Seminar	1
		Approved Elective	3		CMST 1315	Intro to Public Speaking	3
		Approved Elective	2			Approved Elective	3
			13				14

Total Credit Hours at Tyler Junior College 65

Total Credit Hours at UT Tyler 55

Total Credit Hours 120

This pathway cannot be used in lieu of a Degree Plan. This pathway does not lead to Teacher Certification.

Advanced Chemistry Electives

CHEM 3354	Physical Chemistry II	3
CHEM 3155	Physical Chemistry II lab	1
CHEM 4330	Advanced Inorganic Chemistry	3
CHEM 4332	Spectroscopy	3
CHEM 4346	Advanced Organic Chemistry	3
CHEM 4344	Molecular Basis of Disease	3