AA in Chemistry to BS in Chemistry

Recommended 4-Year Course Sequence

2025-2026 Catalog

FRESHMAN YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
ENGL 1301		Composition I	3	ENGL 1302		Composition II	3
HIST 1301		United States History I	3	HIST 1302		United States History II	3
CHEM 1411		General Chemistry I	4	CHEM 1412		General Chemistry II	4
MATH 2413		Calculus I	4	MATH 2414		Calculus II	3
BIOL 1406		Biology for Science Majors I	4	BIOL 1407		Biology for Science Majors II	4
			18				17

SOPHOMORE YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
GOVT 2305		Federal Government,Federal Government Constitution & Topics	3	GOVT 2306		Texas Government	3
		Language, Philosophy, and Culture Course	3			Social and Behavioral Science	3
PHYS 1401	PHYS 2325/2125	University Physics I	4	PHYS 1402	PHYS 2326/2126	University Physics II	4
		Creative Arts Course	3			Component Area Course	3
		Component Area Course	3	MATH 1342		Elementary Statistical Methods	3
			16				16

JUNIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
		Approved Elective	3		CHEM 3344	Organic Chemistry II	3
	CHEM 3310	Analytical Chemistry	3		CHEM 3145	Organic Chemistry II Lab	1
	CHEM 3111	Analytical Chemistry Lab	1		CHEM 3320	Inorganic Chemistry	3
	CHEM 3342	Organic Chemistry I	3		CHEM 3121	Inorganic Chemistry Lab	1
	CHEM 3143	Organic Chemistry I Lab	1		CMST 1315	Intro to Public Speaking	3
						Approved Elective	1
			11				12

SENIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	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
	CHEM 3352	Physical Chemistry I	3		CHEM 3346	Macro/Nano Chemistry	3
	CHEM 3153	Physical Chemistry I Lab	1		CHEM 3354	Physical Chemistry II*	3
	CHEM 4332	Spectroscopy*	3		CHEM 3155	Physical Chemistry II Lab*	1
			15				15

Total Credit Hours at Trinity Valley Community College	59
Total Credit Hours at UT Tyler	61
Total Credit Hours	120

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