



AA in Chemistry to BS in Biochemistry

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
SPCH 1315		Public Speaking	3	PHYS 1402	PHYS 2326/2126	University Physics II	4
MATH 1342		Elementary Statistical Methods	3			Creative Arts Course	3
PHYS 1401	PHYS 2325/2125	University Physics I	4			Elective	2
			16				15
JUNIOR YEAR							
Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	CHEM 3310	Analytical Chemistry	3		CHEM 3320	Inorganic Chemistry	3
	CHEM 3111	Analytical Chemistry lab	1		CHEM 3121	Inorganic Chemistry lab	1
	CHEM 3342	Organic Chemistry I	3			Advanced Biology Elective*	3
	CHEM 3143	Organic Chemistry I Lab	1			Advanced Biology Elective Lab*	1
		Advanced Biology Elective*	3			Advanced Biology Elective*	3
		Advanced Biology Elective Lab*	1			Advanced Biology Elective Lab*	1
					CHEM 3344	Organic Chemistry II	3
					CHEM 3145	Organic Chemistry II Lab	1
			12				16
SENIOR YEAR							
Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	CHEM 3352	Physical Chemistry I	3		CHEM 4344	Molecular Basis of Disease	3
	CHEM 3153	Physical Chemistry I Lab	1		CHEM 3346	Nano/Supra Chemistry	3
	CHEM 4190	Chemical Literature	1		CHEM 4191	Seminar	1
	CHEM 4334	Biochemistry I	3		CHEM 4340	Proteomics	3
	CHEM 4135	Biochemistry I Lab	1		CHEM 4336	Biochemistry II	3
		Advanced Chemistry Elective*	4				
			13				13
Total Credit Hours at Trinity Valley Community College							58
Total Credit Hours at UT Tyler							62
Total Credit Hours							120

Highlighted courses can be taken via co-enrollment at UT Tyler.