



**Bachelor of Science in Mathematics**  
 Recommended 4-Year Course Sequence  
 2018-2019 Catalog



**FRESHMAN YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
MATH 2413		Calculus I	4	MATH 2414		Calculus II	4
ENGL 1301		Composition I	3	ENGL 1302/2311		Composition II <b>OR</b> Technical & Business Writing	3
HIST 1301		United States History I	3	HIST 1302/2301		United States History II <b>OR</b> Texas History	3
EDUC 1300		Learning Framework	3			Social and Behavioral Science Core Course	3
		Language, Philosophy, and Culture Core Course	3	MATH 1342		Elementary Statistics	3
		Elective	1				
			17				16

**SOPHOMORE YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
MATH 2415		Calculus III	4	MATH 2320		Differential Equations	3
GOVT 2305		Federal Government	3	GOVT 2306		Texas Government	3
		Life and Physical Science Core Course	4			Life and Physical Science Core Course	4
SPCH 1315/1321		Public Speaking <b>OR</b> Business & Prof Communication	3			Creative Arts Core Course	3
	MATH 3425	Foundations of Mathematics	4		MATH 3336	Abstract Algebra I	3
			18				16

**JUNIOR YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	MATH 2113	Calculus I Computer Lab	1		MATH 2114	Calculus II Computer Lab	1
	MATH 3345	Real Analysis I	3		MATH 3404	Multivariate Calculus	4
	MATH 3315	Linear Algebra and Matrix Theory	3		MATH 3104	Multivariate Calculus Computer Lab	1
		Elective in Minor	3		MATH 3373	Applied Mathematics I	3
		Upper-Division Elective	3		MATH 3380	Algorithms in Applied Mathematics	3
						Elective in Minor	3
			13				15

**SENIOR YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	MATH 4336	Abstract Algebra II <b>OR</b>	3		MATH 4351	Applied Statistics <b>OR</b>	3
	MATH 4341	Real Analysis II <b>OR</b>			MATH 4373	Applied Mathematics II <b>OR</b>	
	MATH 4342	Introduction to Complex Variables			MATH 4380	Modeling and Numerical Analysis	
	MATH 4350	Theory of Probability	3		MATH 4161	Senior Seminar II	1
	MATH 4160	Senior Seminar I	1			Upper-Division Mathematics Course	3
		Elective in Minor	3			Elective in Minor	3
		Elective in Minor	3			Elective in Minor	3
			13				13

**Total Credit Hours at Tyler Junior College** 60  
**Total Credit Hours at UT Tyler** 61  
**Total Credit Hours** 121