



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



**FRESHMAN YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGL 1301		Grammar & Composition I	3	GOVT 2306		Introductory Texas Politics	3
HIST 1301		United States History I	3	PHYS 2425		University Physics I	4
MATH 2413		Calculus I	4	MATH 2414		Calculus II	4
CHEM 1411		General Chemistry I	4	ENGR 1304		Engineering Graphics	3
ENGR 1201		Introduction to Engineering	2	ENGL 1302		Grammar & Composition II	3
			16				17

**SOPHOMORE YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
PHYS 2426		University Physics II	4	ENGR 2305		Electrical Circuits I	3
ENGR 2301		Engineering Mechanics-Statics	3	ENGR 2105		Electrical Circuits I Laboratory	1
MATH 2415		Calculus III (Multivariate)	4			Creative Arts	3
ECON 2301/2302		Principles of Macroeconomics OR Principles of Microe	3	MATH 2320		Differential Equations	3
ENGR 2304		Programming for Engineers	3	COSC 1336		Programming Fundamentals I	3
				SPCH 1315		Public Speaking	3
			17				16

**JUNIOR YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	MATH 3203	Matrix Methods for Engineers	2		EENG 3314	Design Methodology in Electrical Engineering	3
	EENG 3302	Digital Systems	3		EENG 4308	Automatic Controls	3
	EENG 3303	Electromagnetic Fields	3		EENG 3307	Microprocessors	3
	EENG 3305	Linear Circuits Analysis II	3		EENG 4309	Electronic Circuits Analysis II	3
	EENG 3306	Electronic Circuits I	3		EENG 4109	Electronic Circuits Analysis II Lab	1
	EENG 3106	Electronic Circuits I Lab	1		EENG 4311	Signals and Systems	3
			15				16

**SENIOR YEAR**

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	MATH 3351	Probability & Statistics	3		EENG 4315	Senior Design II	3
	POLS 2305	Introduction to American Government	3		PHIL 2306	Introduction to Ethics	3
	ENGR 4109	Senior Seminar	1		HIST 1302	United States History II	3
	EENG 4115	Senior Design I	1			Approved Technical Elective	3
	EENG 4310	Electric Power Systems	3			Approved Technical Elective	3
	EENG 4110	Electric Power Systems Lab	1				
	EENG 4312	Communications Theory	3				
		Approved Technical Elective	3				
			18				15

							Total Credit Hours at Tyler Junior College	66	
							Total Credit Hours at UT Tyler	64	
							Total Credit Hours	130	