



Bachelor of Science in Electrical Engineering
 Recommended 4-Year Course Sequence
 2024-2025 Catalog



FRESHMAN YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGL 1301		College Composition I	3	ENGL 2311		Technical and Business Writing	3
CHEM 1411		General Chemistry I	4	PHYS 2425		University Physics I	4
MATH 2413		Calculus I	4	MATH 2414		Calculus II	4
COSC 1436		Programming Fundamentals (3 SCH for UT Tyler)	3	COSC 1437		Programming Fundamentals II	3
ENGR 1201		Introduction to Engineering (1 SCH for UT Tyler)	1			Creative Arts Core	3
COSC 1301*		Intro to Computing (TJC Institutional requirement)	0				
			15				17

SOPHOMORE YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
HIST 1301		United States History I	3	HIST 1302		United States History II	3
MATH 2415		Calculus III	4	MATH 2320		Differential Equations	3
PHYS 2426		University Physics II	4	SPCH 1315		Introduction to Public Speaking	3
MATH 2318		Linear Algebra (2 SCH for UT Tyler)	2	ENGR 2304**	EENG 3308	Programming for Engineers	3
	EENG 3302	Digital Systems Design	3	ENGR 2305		Linear Circuits Analysis I	3
				ENGR 2105		Linear Circuits Analysis I Lab	1
			16				16

JUNIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	ECON 2301 OR ECON 2302	Principles of Macroeconomics OR Principles of Microeconomics	3		EENG 4307	Microprocessors and Embedded Systems	3
	MATH 3351	Probability and Statistics for Engineers and Scientists	3		EENG 4308	Automatic Control Systems	3
	EENG 3303	Electromagnetic Fields	3		EENG 4311	Signals and Systems	3
	EENG 3305	Linear Circuits Analysis II	3		EENG 4309	Electronic Circuits Analysis II	3
	EENG 3306	Electronic Circuit Analysis I	3		EENG 4109	Electronic Circuits Analysis II Lab	1
	EENG 3106	Electronics Circuit Analysis I Lab	1			Engineering or Science Elective	3
			16				16

SENIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	POLS 2305	Introductory American Government	3		POLS 2306	Introductory Texas Politics	3
	EENG 4105	Undergraduate Research Seminar (Only for 4+1)	0		PHIL 2306	Introduction to Ethics	3
	EENG 4115	Senior Design I	1		EENG 4315	Senior Design II	3
	EENG 4110	Electric Power Systems Lab	1			Approved 4000 Level Technical Elective	3
	EENG 4310	Electric Power Systems	3			Student Enrichment Experience	3
	EENG 4312	Communication Theory	3				
		Approved 4000 Level Technical Elective	3				
		Approved 4000 Level Technical Elective	3				
			17				15

Total Credit Hours at Tyler Junior College							64
Total Credit Hours at UT Tyler							64
Total Credit Hours							128

* COSC 1301 Required for AS completion for TJC, not used in UT Tyler Degree Plan

** ENGR 2304, from TJC, if passed will be accepted for EENG 3308 at UT Tyler