

AS to BS Electrical Engineering
Recommended 4-Year Course Sequence
2024-2025 Catalog



FRESHMAN YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
ENGL 1301		Composition I	3	ENGL 1302 or 2311		Engineering Graphics I	2
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 I	4	COSC 1437		Programming Fundamentals II	4
ENGR 1201		Intro to Engineering	2			Creative Arts	3
			17				17

SOPHOMORE YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
HIST 1301		US History I	3	HIST 1302		US History II	3
MATH 2415		Multivariate Calculus	4	MATH 2320		Ordinary Differential Equations	3
PHYS 2426		University Physics II	4	SPCH 1315		Public Speaking	3
	MATH 3203/3315	Matrix Methods in Science OR Linear Algebra and Matrix Theory	2		EENG 3308	Programming Languages for Design	3
	EENG 3302	Digital Systems Design	3		EENG 3304/3014	Linear Circuits Analysis I (and Lab)	4
			16				16

JUNIOR YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
	ECON 2301 (or ECON 2302)	Principles of Macroeconomics (Principles of Microeconomics)	3		EENG 4307	Microprocessors and Embedded Systems	3
	MATH 3351	Probability and Statistics for Engineers and	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 4309/4109	Electronic Circuits Analysis II (Lecture & Lab)	4
	EENG 3306/3106	Electronic Circuit Analysis I (Lecture & Lab)	4			Engineering or Science Elective	3
			16				16

SENIOR YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
	POLS 2305	Introductory American Government	3		POLS 2306	Introductory Texas Politics	3
	EENG 4105	Undergraduate Research Seminar	1		PHIL 2306	Introduction to Ethics	3
	EENG 4115	Senior Design I	1		EENG 4315	Senior Design II	3
	EENG 4310/4110	Electric Power Systems (Lecture & Lab)	4			Approved 4000 level Technical Elective	3
	EENG 4312	Communications Theory	3			Student Enrichment Experience	3
		Approved 4000 level Technical Elective	3				
		Approved 4000 level Technical Elective	3				
			18				15

Total Credit Hours at Kilgore College 66
Total Credit Hours at UT Tyler 65
Total Credit Hours 131

It should be noted that there is a slight discrepancy due to differences in credit hours earned for comparable classes.

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