



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



FRESHMAN YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
ENGL 1301		Composition I	3	ENGL 1302 (or ENGL 2311)		College Composition II (or 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 1336		Programming Fundamentals	3	COSC 1337		The Object-Oriented Paradigm	3
GOVT 2305		Federal Government I	3			Creative Arts	3
			17				17

SOPHOMORE YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
HIST 1301		US History I	3	HIST 1302		US History II	3
MATH 2415		Multivariate Calculus	4	MATH 2320		Differential Equations	3
PHYS 2426		University Physics II	4	SPCH 1315		Intro to Public Speaking	3
MATH 2318		Linear Algebra	3		EENG 3308	Programming Languages for Design	3
ECON 2301/02		Micro- or Macroeconomics	3		EENG 3304/3104	Linear Circuits Analysis I (and Lab)	4
	EENG 1101	Intro to Electrical Engineering	1				
			18				16

JUNIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	EENG 3302	Digital Systems Design	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			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	EENG 4105	Undergraduate Research Seminar	1		POLS 2306	Introductory Texas Politics	3
	EENG 4115	Senior Design I	1		PHIL 2306	Introduction to Ethics	3
	EENG 4310/4110	Electric Power Systems (Lecture & Lab)	4		EENG 4315	Senior Design II	3
	EENG 4312	Communications Theory	3		Various	Approved 4000 level Technical Elective	3
	Various	Approved 4000 level Technical Elective	3		Various	Student Enrichment Experience	2
	Various	Approved 4000 level Technical Elective	3				
			15				14

Total Credit Hours at Trinity Valley Community College 68
Total Credit Hours at UT Tyler 61
Total Credit Hours 129

Courses highlighted in green are to be taken concurrently at UT Tyler.