



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



FRESHMAN YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
ENGL 1301		College Composition I	3		ENGL 2311		Technical and Business Writing	3	
CHEM 1311/1111		General Chemistry I (Lecture & Lab)	4		PHYS 2325/2125		University Physics I (Lecture & Lab)	4	
MATH 2413		Calculus I	4		MATH 2414		Calculus II [TCCN: MATH 2414]	4	
COSC 1436	COSC 1336	Programming Fundamentals (Programming Fundamentals I)	4		COSC 1437	COSC 1337	The Object-Oriented Paradigm (Programming Fundamentals II)	4	
ENGR 1201	EENG 1101	Introduction to Engineering	2		HIST 1301		U.S. History I	3	
						ENGR 1000	Thriving in Engineering		0
			17	0				18	0

SOPHOMORE YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
ECON 2301		Principles of Macroeconomics	3		ENGR 2305/2105	EENG 3304	Electrical Circuits I (Lecture and Lab)	4	
MATH 2415		Multivariate Calculus (i.e., Calculus III)	4		MATH 2320	MATH 3305	Ordinary Differential Equations	3	
PHYS 2326/2116		University Physics II (Lecture & Lab)	4		ENGR 2306/2106	EENG 3302	Introduction to Digital Systems (Lecture and Lab)	4	
GOVT 2305	POLS 2305	Federal Government	3		ENGR 2304	EENG 3308	Programming Languages for Design	3	
	MATH 3202	Matrix Methods in Science Engineering		2	PHIL 2306		Introduction to Ethics	3	
			14	2				17	0

JUNIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
SPCH 1315	CMST 1315	Introduction to Public Speaking	3			EENG 4307	Microprocessors and Embedded Systems		3
	MATH 3351	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 4309/4109	Electronic Circuits Analysis II (Lecture & Lab)		4
	EENG 3306/3106	Electronic Circuit Analysis I (Lecture & Lab)		4		Various	Engineering or Science Elective		3
			3	13				0	16

SENIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
HIST 1302		U.S. History II	3		GOVT 2306	POLS 2306	Introductory Texas Politics	3	
	EENG 4115	Senior Design I		1	Various		Creative Arts Core	3	
	EENG 4310/4110	Electric Power Systems (Lecture & Lab)		4		EENG 4315	Senior Design II		3
	EENG 4312	Communications Theory		3		EENG 43XX	Approved 4000 level Technical Elective		3
	EENG 43XX	Approved 4000 level Technical Elective		3		Various	Student Enrichment Experience		3
	EENG 43XX	Approved 4000 level Technical Elective		3					
			3	14				6	9

Total Credit Hours at Houston Community College	78
Total Credit Hours at UT Tyler	54
Total Credit Hours	132