



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



FRESHMAN YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HEC	UTT
ENGL 1301		College Composition I	3		ENGL 2311		Technical and Business Writing	3	
		General Chemistry I (Lecture only)					University Physics I (Lecture & Lab)		
CHEM 1311			3		PHYS 2325/2125			4	
MATH 2413		Calculus I	4		MATH 2414		Calculus II	4	
COSC 1436	COSC 1336	Programming Fundamentals (Programming Fundamentals I)	4		COSC 1437	COSC 1337	The Object-Oriented Paradigm (Programming Fundamentals II)	4	
HIST 1301		United States History I	3		ECON 2301 or ECON 2302		Principles of Macroeconomics or Principles of Microeconomics	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
MATH 2305	MATH 2330	Discrete Mathematics	3		ENGR 2305/2105	EENG 3304/3104	Electrical Circuits I/Lab	4	
COSC 2436	COSC 2336	Data Structures and Algorithms (Programming Fundamentals III)	4		MATH 2320	MATH 3305	Ordinary Differential Equations	3	
PHYS 2326/2126		University Physics II (Lecture & Lab)	4		COSC 2425	COSC 2315	Computer Organization	4	
	MATH 3202	Matrix Methods in Science and Engineering		2		ENGR 2304	Programming for Engineers		3
ENGR 2306/2106	EENG 3302	Digital Systems Design (Introduction to Digital Systems)	4						
			15	2				11	3

JUNIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
	MATH 3351	Probability and Statistics for Engineers and Scientists		3		EENG 4307	Microprocessors and Embedded Systems		3
	CMPE 3301	Foundations of Computer Engineering		3	PHIL 2306	PHIL 2306	Introduction to Ethics	3	0
	EENG 3306/3106	Electrical Circuit Analysis/Lab		4		CMPE 4309	Digital Electronics		3
HIST 1302	HIST 1303	U.S. History II	3			CMPE 4311	Signals and Systems		3
SPCH 1315	CMST 1315	Introduction to Public Speaking	3		GOVT 2305	POLS 2305	Introduction to American Government	3	
						CMPE 4332	FPGA Design		3
			6	10				6	12

SENIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
GOVT 2306	POLS 2306	Introductory Texas Politics	3			CMPE 4315	Senior Design		3
	COSC 3355	Operating Systems		3		CMPE 4320	Computer Architecture		3
	CMPE 4331	VLSI Design		3		CMPE 43XX	Approved 4000 Level Tech. Elective		3
	CMPE 43XX	Approved 4000 Level Tech. Elective		3		CMPE 43XX	Approved 4000 Level Tech. Elective		3
	CMPE 4342	Data Communication and Networking		3		CMPE 43XX	Student Enrichment Experience		3
		Creative Arts Core		3					
			6	12				0	15

Total Credit Hours at Houston Community College	79
Total Credit Hours at UT Tyler	54
Total Credit Hours	133