Bachelor of Science in Computer 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 (3 SCH for UTTyler, no lab)	3	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
COSC 1301*		Intro to Computing (TJC Institutional requirement)	0	MATH 2305	MATH 2330***	Discrete Math/Discrete Structures	3
HIST 1301		United States History I	3				
			16				17

VAS and allow you to scheudle. But remember this is not the only item left for completion

				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
HIST 1302		United States History II	3	SPCH 1315		Introduction to Public Speaking	3
POLS 2306		Introductory Texas Government	3	ENGR 2305		Linear Circuits Analysis I	3
PHYS 2426		University Physics II	4	ENGR 2105		Linear Circuits Analysis I Lab	1
COSC 2436	COSC 2336	Programming Fundamentals III (3 SCH for UT Tyler)	3	MATH 2320		Differential Equations	3
ENGR 2304	EENG 3308**	Programming for Engineeris	3	MATH 2318		Linear Algebra (2 SCH for UT Tyler)	2
						Creative Arts Core	3
			16				15

JUNIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	MATH 3351	Probability and Statistics for Engineers and Scientists	3		ECON 2301 OR ECON 2302	Principles of Macroeconomics OR Principles of Microeconomics	3
	EENG 3302	Digital Systems Design	3		PHIL 2306	Introduction to Ethics	3
	EENG 3306	Electronic Circuit Analysis I	3		EENG 4307	Microprocessors and Embedded Systems	3
	EENG 3106	Electronics Circuit Analysis I Lab	1		CMPE 4309	Digital Electronics	3
	CMPE 3301	Foundations of Computer Enigneering	3		CMPE 4311	Signals and Systems	3
	COSC 2315	Computer Organization	3		CMPE 4332	FPGA Design	3
			16				18

Understood

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	POLS 2305	Introductory American Government	3		CMPE 4320	Computer Archicture and Design	3
	CMPE 4331	VLSI Design	3		CMPE 4315	Senior Design	3
	CMPE 4342	Data Communication and Networking	3		COSC 3355	Operating Systems	3
	COSC 43XX	Approved 4000 Level Technical Elective	3		CMPE 43XX	Approved 4000 Level Technical Elective	3
	COSC 43XX	Approved 4000 Level Technical Elective	3		CMPE 43XX	Approved 4000 Student Enrichment Elective	3
			15				15

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

ENGR 1201	Required for AS completion for TJC, not required in UTTyler Degree Plan
* COSC 1301	Required for AS completion for TJC, not used in UTTyler Degree Plan
**ENGR 2304	Accepted as equivalnet when passed at TJC for EENG 3308 at UTTyler
*** MATH 2305	Listed as TCCN equivlent as MATH 2330 (Discrete Structures)at UTTyler