



Bachelor of Science in Civil Engineering
 Recommended 4-Year Course Sequence
 2018-2019 Catalog



FRESHMAN YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGL 1301		Grammar & Composition I	3	GOVT 2306		Introductory Texas Politics	3
MATH 2413		Calculus I	4	PHYS 2425		University Physics I	4
CHEM 1411		General Chemistry I	4	MATH 2414		Calculus II	4
ENGR 1201		Introduction to Engineering	2	ENGR 1304		Engineering Graphics	3
HIST 1301		United States History I	3	ENGL 2311		Technical and Business Writing	3
			16				17

SOPHOMORE YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
PHYS 2426 CHEM 1412		University Physics II or General Chemistry II	4	ENGR 2305		Electrical Circuits I	3
ENGR 2301		Engineering Mechanics-Statics	3	ENGR 2105		Electrical Circuits I Laboratory	1
MATH 2415		Calculus III (Multivariate)	4			Creative Arts	3
ECON 2301		Principles of Macroeconomics	3	MATH 2320		Differential Equations	3
ENGR 2304		Programming for Engineers	3	ENGR 2302		Engineering Mechanics-Dynamics	3
				SPCH 1315		Public Speaking	3
			17				16

JUNIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	CENG 2336	Geomatics	3		CENG 3361	Applied Engineering Hydrology and Hydraulic Design	3
	CENG 3310	Fluid Mechanics and Hydraulics	3		CENG 3371	Introduction to Environmental Engineering	3
	MATH 3351	Probability & Statistics for Engineers and Scientists	3		CENG 3336	Soil Mechanics and Foundation Design	3
	CENG 4339	Civil Engineering Construction Management	3		CENG 3325	Structural Analysis	3
	CENG 3306	Mechanics of Material	3		CENG 3351	Transportation Engineering Systems	3
		Additional Science Elective	3				
			18				15

SENIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	CENG 4412	Reinforced Concrete and Steel Design	4		CENG 4315	Senior Design II	3
	CENG 4115	Senior Design I	1		CENG 4341	Civil Engineers and Leadership, Public Policy, Business Practices and Asset Management	3
	ENGR 4109	Senior Seminar	1				
	ENGR 4009	FE Exam Preparation	0		PHIL 2306	Introduction to Ethics	3
	CENG 3434	Civil Engineering Materials, Codes and Specifications	4		HIST 1302	United States History II	3
		Design Elective	3		POLS 2305	Introductory American Government	3
		Design Elective	3			Technical or Design Elective	3
			16				18

Total Credit Hours at Tyler Junior College		66	
Total Credit Hours at UT Tyler		67	
Total Credit Hours		133	
Note: This course sequence assumes the student will reverse transfer the core classes taken at UT Tyler back to TJC in order to complete the Associate of Science degree in Engineering.			