



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



FRESHMAN YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
ENGR 1201		Introduction to Engineering	2	ENGL 1302		College Composition II	3
ENGL 1301		College Composition I	3	MATH 2414		Calculus II	4
MATH 2413		Calculus I	4	ENGR 1304		Engineering Graphics I (only 2 hours accepted at UT Ty	2
CHEM 1411		General Chemistry I	4	PHYS 2425		University Physics I	4
GOVT 2306		Introductory Texas Politics	3	SPCH 1315		Introduction to Public Speaking	3
COSC 1301*		Intro to Computing (TJC Institutional requirement)	0				
16				16			

SOPHOMORE YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
GOVT 2305		Introductory American Government	3	GOVT 2306		Introductory Texas Politics	3
ENGR 2301		Engineering Mechanics: Statics	3	ECON 2301 OR ECON 2302		Principles of Macroeconomics or Principles of Microeconomics	3
ACCT 2301		Principles of Financial Accounting	3	PHYS 2426		University Physics II	4
		Creative Arts	3	GEOL 1403	GEOL 3310	Physical Geology (only 3 hours accepted at UT Tyler)	3
SRVY 2331 OR SRVY 2335		Geodetic Survey and Mapping OR Geodetic Survey at	3	PHIL 2306		Introduction to Ethics	3
HIST 1301		United States History I	3				
18				16			

JUNIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	CENG 3434	Civil Engineering Materials, Codes, and Specifications	4		CMGT 3348	Construction Safety	3
	CENG 3306	Mechanics of Materials	3		CENG 3351	Transportation Engineering Systems	3
	CONE 3301	Introduction to Thermal Fluid Sciences	3		CMGT 3365	Mechanical, Electrical and Plumbing Systems	3
	CENG 4339	Civil Engineering Construction Management	3		CENG 3336	Soil Mechanics	3
		Math or Science Elective	4		CENG 3325	Structural Analysis	3
17				15			

SENIOR YEAR

Fall				Spring			
TJC	UT Tyler	Title	Hours	TJC	UT Tyler	Title	Hours
	CENG 4412	Reinforced Concrete and Steel Design	4		CONE 4315	Senior Design II	3
	CONE 4325	Horizontal and Vertical Construction Techniques	3		CONE 4341	Leadership, Professionalism & Public Policy	3
	CENG 4381 OR CENG 4351	Foundation Design Traffic Engineering: Operations and Control	3		POLS 2305	Intrductgory American Government	3
	CENG 4115	Senior Design I	1		HIST 1302	United States History II	3
	CMGT 3104	Graphical Tools for Design and Modeling of infrastructure	1			Enrichment elective	3
	MATH 3351	Probability and Statistic for Engineers and Scientists	3				
15				15			

Total Credit Hours at Tyler Junior College 66
Total Credit Hours at UT Tyler 62
Total Credit Hours 128

* COSC 1301 Required for AS completion for TJC (Civil), not used in UT Tyler Degree Plan