



**AA Pre-Engineering to BS Civil Engineering**  
 Recommended 4-Year Course Sequence  
 2024-2025 Catalog



**FRESHMAN YEAR**

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
ENGL 1301		Composition I	3	ENGL 1302		Composition II	3
MATH 2413		Calculus I	4	MATH 2414		Calculus II	4
CHEM 1411		General Chemistry	4	SPCH 1315		Intro to Public Speaking	3
GOVT 2306		Texas Government	3	PHYS 2425		University Physics	4
	ENGR 1201	Intro to Engineering	2			Additional Science Elective	3
16				17			

**SOPHOMORE YEAR**

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
GOVT 2305		Federal Government	3	ECON 2301/02		Macro- or Microeconomics	3
HIST 1301		US History I	3	HIST 1302		US History II	3
MATH 2415		Multivariate Calculus	4	MATH 2320		Ordinary Differential Equations	3
PHYS 2426		University Physics II	4	PHIL 2306		Intro to Ethics	3
	ENGR 2301	Engineering Mechanics: Statics	3		ENGR 2302	Engineering Mechanics: Dynamics	3
					ENGR 1204	Engineering Graphics I	2
17				17			

**JUNIOR YEAR**

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	CENG 3434	Civil Engineering Materials, Codes, and	4		CENG 3361	Applied Engineering Hydrology and Hydraulic	3
	CENG 3310	Fluid Mechanics and Hydraulics	3		CENG 3351	Transportation Engineering Systems	3
	MATH 3351	Probability and Statistics for Engineers and	3		CENG 3371	Introduction to Environmental Engineering	3
	CENG 4339	Civil Engineering Construction Management	3		CENG 3336	Soil Mechanics and Foundation Design	3
	CENG 3306	Mechanics of Materials	3		CENG 3325	Structural Analysis	3
16				15			

**SENIOR YEAR**

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	CENG 4412	Reinforced Concrete and Steel Design	4		CENG 4315	Senior Design II	3
	CENG 4351	Traffic Engineering: Operations and Control	3		CENG 4341	Civil Engineers and Leadership, Public Policy,	3
	CENG 4371	Environmental Engineering Design	3		Various	Creative Arts (3 hrs.)	3
	CENG 4381	Foundation Design	3		Various	CENG Approved Technical Electives	3
	CENG 4115	Senior Design I	1		Various	CENG Approved Technical Electives	3
	CENG 4109	Preparation for Professional Practice in Civil	1				
15				15			

Total Credit Hours at Trinity Valley Community College		67
Total Credit Hours at UT Tyler		61
Total Credit Hours		128

Courses highlighted in green are to be taken concurrently at UT Tyler.