



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



FRESHMAN YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
CHEM 1411		General Chemistry I	4	PHYS 2425		University Physics I	4
ENGL 1301		Composition I	3	MATH 2414		Calculus II	4
MATH 2413		Calculus I	4	ENGL 1302		Composition II	3
SPCH 1315		Intro to Public Speaking	3	HIST 1302		US History II	3
HIST 1301		US History I	3				
			17				14

SOPHOMORE YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
PHYS 2426		University Physics II	4	MATH 2320		Ordinary Differential Equations	3
MATH 2415		Multivariate Calculus	4	ECON 2301/02		Macro- or Microeconomics	3
	MATH 2318	Linear Algebra	2			Creative Arts	3
GOVT 2305		Federal Government	3	GOVT 2306		Texas Government	3
	MENG 1301	Engineering Graphics and Design	3	PHIL 2306		Intro to Ethics	3
			16				15

JUNIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	EENG 3308	Programming Languages for Design (Programming)	3		ENGR 2302	Engineering Mechanics: Dynamics	3
	ENGR 2301	Engineering Mechanics: Statics	3		MENG 3306	Mechanics of Materials	3
	MENG 3319	Materials Science and Manufacturing	3		MATH 3351	Probability and Statistics for Engineers and	3
	MENG 3401	Thermodynamics	4		MENG 3316	Heat Transfer	3
	MENG 3310	Fluid Mechanics	3		MENG 3309	Mechanical Systems Design	3
	MENG 3210	Experimental Measurements and Techniques	2		MENG 3211	Thermal-Fluids Laboratory	2
			18				17

SENIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	MENG 4215	Senior Capstone Design I	2		MENG 3303	Dynamics of Machinery	3
		Technical Elective	3		EENG 3301	Electrical Engineering Circuits, Systems, and	3
	MENG 4312	System Dynamics and Control	3		MENG 4216	Senior Capstone Design II	2
		Technical Elective	3		MENG 4326	Finite Element Analysis	3
		Technical Elective	3		Various	Technical Elective	3
					Various	Technical Elective	3
			14				17

Total Credit Hours at Trinity Valley Community College	62
Total Credit Hours at UT Tyler	66
Total Credit Hours	128

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