

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



FRESHMAN YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	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		Public Speaking	3	HIST 1302		US History II	3
	MENG 1301	Engineering Graphics and Design	3		EENG 3308	Programming Languages for Design	3
			17				17

SOPHOMORE YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
PHYS 2426		University Physics II	4	MATH 2320		Ordinary Differential Equations	3
MATH 2415		Multivariate Calculus	4	ECON 2301 or 2302		Macro- or Microeconomics	3
ENGR 2301		Engineering Mechanics: Statics	3	ENGR 2302		Engineering Mechanics: Dynamics	3
	MATH 3203/3315	Matrix Methods in Science OR Linear Algebra and Matrix Theory	2		MENG 3306	Mechanics of Materials	3
	MENG 3319	Materials Science and Manufacturing	3		MATH 3351	Probability and Statistics for Engineers and Scientists	3
			16				15

JUNIOR YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
	MENG 3401	Thermodynamics	4		MENG 3316	Heat Transfer	3
	MENG 3310	Fluid Mechanics	3		MENG 3309	Mechanical Systems Design	3
		Technical Elective	3		MENG 3211	Thermal-Fluids Laboratory	2
	MENG 3210	Experimental Measurements and Techniques	2		MENG 3303	Dynamics of Machinery	3
		Creative Arts (Core, 3 hrs.)	3		EENG 3301	Electrical Engineering Circuits, Systems, and Applications	3
					PHIL 2306	Introduction to Ethics	3
			15				17

SENIOR YEAR

Fall				Spring			
KC	UT Tyler	Title	Hours	KC	UT Tyler	Title	Hours
	MENG 4215	Senior Capstone Design I	2		MENG 4216	Senior Capstone Design II	2
	HIST 1301	United States History I	3		POLS 2306	Introductory Texas Politics	3
	POLS 2305	Introductory American Government	3		MENG 4326	Finite Element Analysis	3
		Technical Elective	3		Various	Technical Elective	3
	MENG 4312	System Dynamics and Control	3		Various	Technical Elective	3
		Technical Elective	3				
			17				14

Total Credit Hours at Kilgore College	65
Total Credit Hours at UT Tyler	63
Total Credit Hours	128

Courses highlighted on the pathway can be taken via co-enrollment at UT Tyler.