



TJC

Bachelor of Science in M

Recommended 4-Year
2018-2019

FRESHMAN

Fall

TJC	UT Tyler	Title	Hours
ENGL 1301		Grammar & Composition I	3
HIST 1301		United States History I	3
MATH 2413		Calculus I	4
CHEM 1311		General Chemistry I	3
CHEM 1111		General Chemistry I Lab	1
ENGR 1201		Introduction to Engineering	2
			16

SOPHOMORE

Fall

TJC	UT Tyler	Title	Hours
PHYS 2326		University Physics II	3
PHYS 2126		University Physics II Lab	1
ENGR 2304		Programming for Engineers	3
MATH 2415		Calculus III (Multivariate)	4
ENGR 2301		Engineering Mechanics-Statics	3
ECON 230X		Macro or Micro Economics	3
			17

JUNIOR

Fall

TJC	UT Tyler	Title	Hours
	MENG 3301	Thermodynamics I	3
	MENG 3306	Mechanics of Materials	3
	MENG 3310	Fluid Mechanics	3
	MENG 3303	Dynamics of Machinery	3
	MENG 3210	Mechanical Engineering Lab I	2
	MATH 3351	Probability & Statistics	3
			17

SENIOR

Fall

TJC	UT Tyler	Title	Hours
	MENG 4115	Senior Design I	1
	MATH 3203	Matrix Methods	2
	MENG 4313	Thermal Systems Design	3
	ENGR 4109	Senior Seminar	1
		Approved 4000 Level Technical Elective	3
	MENG 4312	System Dynamics and Control	3
	HIST 1303	US History of Technology & Innovation	3
			16



1ST YEAR			
Spring			
TJC	UT Tyler	Title	Hours
GOVT 2306		Introductory Texas Politics	3
PHYS 2325		University Physics I	3
PHYS 2125		Unviersity Physics I Lab	1
MATH 2414		Calculus II	4
ENGR 1304		Engineering Graphics	3
ENGL 1302		Grammar and Composition II	3
			17

2ND YEAR			
Spring			
TJC	UT Tyler	Title	Hours
ENGR 2305		Circuit Analysis I	3
ENGR 2105		Circuit Analysis I Lab	1
		Creative Arts	3
MATH 2320		Differential Equations	3
ENGR 2302		Engineering Mechanics-Dynamics	3
ENGL 2xxx		World or British Literature	3
			16

3RD YEAR			
Spring			
TJC	UT Tyler	Title	Hours
	MENG 3304	Thermodynamics II	3
	MENG 3316	Heat Transfer	3
	MENG 3309	Mechanical Systems Design	3
	MENG 3211	Mechanical Engineering Lab II	2
	ENGR 3314	Design Methodology in Engineering	3
	MENG 3319	Materials Science and Manufacturing	3
			17

4TH YEAR			
Spring			
TJC	UT Tyler	Title	Hours
	MENG 4315	Senior Design II	3
		Approved 4000 Level Technical Elective	3
		Approved 4000 Level Technical Elective	3
	POLS 2305	Introductory American Government	3
	PHIL 2316	Technology and Science Ethics	3
	ENGR 4009	FE Examination Preparation	0
			15
Total Credit Hours at Tyler Junior College			66

Total Credit Hours at UT Tyler	65
Total Credit Hours	131