



Bachelor Of Science in Mechanical Engineering

Four Year Curriculum

2015-2016 Catalog

The University of Texas at Tyler

Freshman Year

Fall Semester			Spring Semester		
Course	Title	SCH	Course	Title	SCH
ENGL 1301	College Composition I	3	ENGL 1302	College Composition II	3
MATH 2413	Calculus I	4	PHYS 2325	University Physics I	3
CHEM 1311	General Chemistry I	3	PHYS 2125	University Physics I Lab	1
CHEM 1111	General Chemistry I Lab	1	MATH 2414	Calculus II	4
ENGR 1201	Introduction to Engineering	2	MENG 1201	Mechanical Engineering I	2
SPCM 1315	Fundamentals of Speech Communication	3		Creative Arts	3
Semester Credit Hours		16	Semester Credit Hours		16

Sophomore Year

Fall Semester			Spring Semester		
Course	Title	SCH	Course	Title	SCH
PHYS 2326	University Physics II	3	MENG 3319	Materials & Manufacturing	3
PHYS 2126	University Physics II Lab	1	HIST 1303	History of Tech and Innovation in the US	3
MATH 3203	Matrix Methods	2	ECON 2302	Principles of Microeconomics , OR	3
MATH 3404	MultiVariate Calculus	4	ECON 2301	Principles of Macroeconomics	
ENGR 2301	Mechanics - Statics	3	MATH 3305	Differential Equations	3
MENG 2201	Mechanical Engineering II	2	ENGR 2302	Engineering Mechanics - Dynamics	3
Semester Credit Hours		15	Semester Credit Hours		15

Junior Year

Fall Semester			Spring Semester		
Course	Title	SCH	Course	Title	SCH
MENG 3301	Thermodynamics I	3	MENG 3304	Thermodynamics II	3
MENG 3306	Mechanics of Materials	3	MENG 3316	Heat Transfer	3
MENG 3310	Fluid Mechanics	3	MENG 3309	Mechanical Systems Design	3
MENG 3303	Dynamics of Machinery	3	MENG 3211	Mechanical Engineering Lab II	2
MENG 3210	Mechanical Engineering Lab I	2	ENGR 3314	Design Methodology	3
MATH 3351	Probability & Statistics	3	EENG 3304	Linear Circuit Analysis	3
Semester Credit Hours		17	Semester Credit Hours		17

Senior Year

Fall Semester			Spring Semester		
Course	Title	SCH	Course	Title	SCH
MENG 4115	Senior Design I	1	MENG 4315	Senior Design II	3
MENG 4312	System Dynamics & Control	3	ENGR 4009	FE Exam Preparation	0
MENG 4313	Thermal Systems Design	3		Approved 4000 Level Technical Elective	3
ENGR 4109	Senior Seminar	1		Approved 4000 Level Technical Elective	3
	Approved 4000 Level Technical Elective	3	POLS 2306	Introductory Texas Politics	3
POLS 2305	Introductory American Government	3	PHIL 2306	Introduction to Ethics	3
HIST 1301	United States History I	3			
Semester Credit Hours		17	Semester Credit Hours		15

Total Credit Hours 128