

Bachelor of Science-Mechanical Engineering

Required Core Courses	
Refer to catalog for General Education Requirements	46 hours

Required Introduction Engineering Courses		
Courses satisfied in core curriculum:		
Course Number	Course Title	Credit Hours
CHEM 1311 or CHEM 1307	General Chemistry or General Chemistry for Engineering Students (satisfied in core curriculum)	3
CHEM 1111 or CHEM 1117	General Chemistry or General Chemistry for Engineering Students Lab (satisfied in core curriculum)	1
PHYS 2325	University Physics I (satisfied in core curriculum)	3
PHYS 2125	University Physics I Lab (satisfied in core curriculum)	1
PHYS 2326	University Physics II (satisfied in core curriculum)	3
PHYS 2126	University Physics II Lab (satisfied in core curriculum)	1
MATH 2413	Calculus I (satisfied in core curriculum)	4
ECON 2301	Principles of Macroeconomics	3

Required Introduction Engineering Courses		
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
MATH 2320	Differential Equations	3
MATH 2318	Linear Algebra	3
ENGR 1201	Introduction to Engineering	2
ENGR 2305	Electric Circuits I	3
Total Required Introduction Engineering Courses		19

Mechanical Engineering Core Courses		
MEEN 301	Engineering Mechanics I - Statics	3
MEEN 302	Engineering Mechanics II - Dynamics	3
MEEN 368	Solid Mechanics in Mechanical Design	3
CS 332	C++ Programming	3
MEEN 333	Principles of Thermodynamics	3
MEEN 340	Fluid Mechanics	3

MEEN 341	Fluid Mechanics Laboratory	1
MEEN 357	Engineering Analysis for Mechanical Engineers	3
MEEN 461	Heat Transfer	3
MEEN 462	Heat Transfer Lab	1
MEEN 490	Senior Engineering Design I	3
MEEN 360	Manufacturing and Materials Selection in Design	3
MEEN 361	Manufacturing and Materials in Design Lab	1
MEEN 364	Systems and Controls	3
ENGR 440	Computer Aided Design of Mechanical Components	3
MEEN 363	Dynamics and Vibrations	3
MEEN 491	Senior Engineering Design II	3
MEEN 404	Engineering Operations	3
Total number of hours in Mechanical Engineering Core		42
Other Requirements		
Select 12 semester credit elective hours from the following:		
Course Number	Course Title	Credit Hours
ENGR 304	Engineering Graphics I	3
ENGR 307	Probability and Random Processes	3
ENGR 410	Project Management and Engineering Economic Analysis	3
ENGR 312	Engineering and Business Ethics	3
ENGR 305	Fundamentals of Power Systems	3
ENGR 306	Fundamentals of Power Systems Lab	1
ENGR 497	Special Topics	3
ENGR 425	Principles of Process Design	3
ENGR 431	Engineering Internship I	3
Total number of hours for elective requirement		12
Total Degree Hours		125

For more information on the Bachelor of Science in Electrical Engineering degree please contact CBET@tamut.edu