

Course Rotation

Bachelor of Science – Mechanical Engineering

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

Required Intro to Engineering Courses			
Course Number	Course Title	Fall	Spring
MATH 2413	Calculus I	X	X
PHYS 2325	University Physics I	X	X
PHYS 2125	University Physics I Lab	X	X
PHYS 2326	University Physics II	X	X
PHYS 2126	University Physics II Lab	X	X
ECON 2301	Principles of Macroeconomics	X	
CHEM 1307	General Chemistry for Engineering Students	X	
CHEM 1111	General Chemistry for Engineering Students Lab	X	

Required Engineering Core Classes			
Course Number	Course Title	Fall	Spring
MATH 2414	Calculus II	X	X
MATH 2415	Calculus III	X	X
MATH 2320	Differential Equations	X	
MATH 2318	Linear Algebra	X	
ENGR 1201	Introduction to Engineering	X	X
ENGR 2305	Electric Circuits I	X	X

Mechanical Engineering Core Courses			
Course Number	Course Title	Fall	Spring
MEEN 301	Engineering Mechanics I - Statics	X	
MEEN 302	Engineering Mechanics II - Dynamics		X
MEEN 368	Solid Mechanics in Mechanical Design		X
CS 332	C++ Programming	X	X
MEEN 333	Principles of Thermodynamics	X	
MEEN 340	Fluid Mechanics	X	
MEEN 341	Fluid Mechanics Laboratory	X	
MEEN 357	Engineering Analysis for Mechanical Engineers	X	
MEEN 461	Heat Transfer		X
MEEN 462	Heat Transfer Lab		X
MEEN 490	Senior Engineering Design I	X	
MEEN 360	Manufacturing and Materials Selection in Design		X
MEEN 361	Manufacturing and Materials in Design Lab		X
MEEN 364	Systems and Controls		X
ENGR 440	Computer Aided Design of Mechanical Components		X
MEEN 363	Dynamics and Vibrations	X	
MEEN 491	Senior Engineering Design II		X
MEEN 404	Engineering Operations	X	

Select 12 semester credit elective hours from the following:			
Course Number	Course Title	Fall	Spring
ENGR 304	Engineering Graphics I	X	
ENGR 307	Probability and Random Processes		X
ENGR 410	Project Management and Engineering Economic Analysis	X	
ENGR 312	Engineering and Business Ethics		X
ENGR 305	Fundamentals of Power Systems		X
ENGR 306	Fundamentals of Power Systems Lab		X
ENGR 497	Special Topics	X	X
ENGR 425	Principles of Process Design	X	
ENGR 431	Engineering Internship I	X	X