



**Mechanical Engineering (MENG)**

**Core Requirements**

Code	Title	Credits	Prerequisites	Corequisites
CHEM200	General Chemistry	3	ENGL101 - CHEM160	
CSCI250	Introduction to Programming	3		ENGL101 - CSCI250L
CSCI250L	Introduction to Programming Lab	1		ENGL101 - CSCI250
EENG250	Electric Circuits I	3	ENGL051	MATH210
EENG300	Electric Circuits II	3	EENG250	EENG301L
EENG301L	Electric Circuits Lab	1	EENG250	EENG300
IENG300	Engineering Project Management	3	ENGL201	
MATH210	Calculus II	3	MATH161 - MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	ENGL051 - MATH161 - MATH160	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210 - ENGL201	
MATH375	Numerical Methods for Scientists & Engineers	3	ENGL051 - MATH270 - MATH225	
Total		35		

**Major Requirements**

Code	Title	Credits	Prerequisites	Corequisites
EENG435	Control Systems	3		
EENG492	Electric Machines For Mechanical Engineers	3	EENG300	MENG430 - EENG492L
EENG492L	Electric Machines For Mechanical Engineers Lab	1	EENG300	EENG492
MENG225	Engineering Drawing & CAD	3		
MENG250	Mechanics I (Statics)	3	ENGL051	MATH210
MENG300	Mechanics II (Dynamics I)	3	ENGL051 - ENGL101 - MENG250	MATH220
MENG310	Engineering Material Science	3	MENG250	CHEM200
MENG320	Engineering Thermodynamics I	3	MENG250	CHEM200 - MENG320L
MENG320L	Engineering Thermodynamics I Lab	1		CHEM200 - MENG320
MENG350	Mechanics III (Dynamics II)	3	MENG300	
MENG360	Mechanics of Materials I	3	MENG310	MENG360L
MENG360L	Mechanics Of Materials I Lab	1	MENG310	MENG360
MENG370	Fluid Mechanics I	3	MENG300	MENG370L
MENG370L	Fluid Mechanics I Lab	1	MENG300	MENG370
MENG410	Mechanics of Materials II	3	MENG360	
MENG420	Heat Transfer	3	MENG320	MENG420L
MENG420L	Heat Transfer Lab	1	MENG320	MENG420
MENG430	Mechanical Vibrations I	3	MATH270 - MENG350	MENG430L
MENG430L	Mechanical Vibrations I Lab	1		MENG430
MENG450	Mechanical Systems I	3	MENG350	MENG450L
MENG450L	Mechanical Systems I Lab	1	MENG350	MENG450
MENG470	Internal Combustion Engines	3	MENG420	
MENG495	Senior Project	3	IENG300	MENG430

Total	55	
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**General Education Requirements**

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
Total		12		

**General Education Electives**

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
Total		6		

**Major Elective Courses**

Code	Title	Credits	Prerequisites	Corequisites
EENG691	Graduate Seminar	1		