



Bachelor of Science in Mechanical Engineering (MENG)

First Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
CHEM200	General Chemistry	3	ENGL101-CHEM160	
MATH225	Linear Algebra with Applications	3	MATH160-ENGL051-MATH161	
MENG225	Engineering Drawing & CAD	3		
PHYS220	Physics for Engineers	3	PHYS161-ENGL101-PHYS160	MATH210
ENGL201	Composition and Research Skills	3	ENGL151	
MATH210	Calculus II	3	MATH161-MATH160	
Total		18		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
MENG250	Statics	3	MATH161-MATH160-PHYS161-PHYS160-ENGL051	MATH210
EENG250	Electric Circuits I	3	PHYS161-PHYS160-MATH161-MATH160-ENGL051	MATH210
ENGL251	Communication Skills	3	ENGL201	
CSCI250	Introduction to Programming	3		ENGL101-CSCI250L
CSCI250L	Introduction to Programming Lab	1		ENGL101-CSCI250
MATH220	Calculus III	3	MATH210	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
Total		19		

Second Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
MENG320L	Engineering Thermodynamics I Lab	1		CHEM200-MENG320
MENG300	Dynamics	3	ENGL051-ENGL101-MENG250	PHYS220-MATH220
MENG310	Engineering Material Science	3	MENG250	MENG225-CHEM200
MENG320	Engineering Thermodynamics I	3	MENG250	CHEM200-MENG320L
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210-ENGL201	
ENGG300	Engineering Economics	3	ENGL201-MATH225	MATH220
CULT200	Introduction to Arab - Islamic Civilization	3		
Total		19		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
EENG370	Industrial Electronics	3	EENG250	EENG370L
EENG370L	Industrial Electronics Lab	1		EENG370

MENG360	Mechanics of Materials I	3	MENG310	MENG360L
MENG370	Fluid Mechanics I	3	MENG300	MATH375-MENG370L
MATH375	Numerical Methods for Scientists & Engineers	3	MATH270-MATH225	
MENG370L	Fluid Mechanics I Lab	1	MENG300	MENG370
MENG360L	Mechanics Of Materials I Lab	1	MENG310	MENG360
	Elective	3		
Total		18		

Third Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
MENG420	Heat Transfer	3	MENG370-MENG320	MENG420L
MENG420L	Heat Transfer Lab	1	MENG320	MENG420
MENG430	Mechanical Vibrations I	3	MENG300-MATH270	MENG410-MATH310-MENG430L
MENG410	Mechanics of Materials II	3	MENG360	
ARAB200	Arabic Language and Literature	3		
MENG430L	Mechanical Vibrations I Lab	1	CSCI250	MENG430
EENG435	Control Systems	3	PHYS220-MENG250-MATH270-MATH225-MATH310-EENG370	
Total		17		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
MENG495	Senior Project	3	EENG435-ENGG300-ENGL251-MENG430-MENG420-MENG410-MENG225	
EENG492	Electric Machines For Mechanical Engineers	3	PHYS220-EENG370	MENG430-EENG492L
EENG492L	Electric Machines For Mechanical Engineers Lab	1		EENG492
ENGG450	Engineering Ethics and Professional Practice	3	ENGL251	MENG495-ENGG300
MENG450L	Mechanical Systems I Lab	1	MENG300-MENG225	MENG450
MENG470	Internal Combustion Engines	3	MENG420	
MENG450	Mechanical Systems I	3	MENG300	MENG430-MENG450L
Total		17		