



Mechanical Engineering (MENG)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
Total		3		

Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CHEM200	General Chemistry	3		CHEM200L
CSCI250	Introduction to Programming	3	CSCI200	CSCI250L
CSCI300	Intermediate Programming with Objects	3	CSCI250	
EENG250	Electric Circuits I	3	PHYS150	EENG250L - MATH170
EENG250L	Electric Circuits I Lab.	1	PHYS150	EENG250
EENG350	Electronic Circuits I	3	EENG250	EENG350L
EENG350L	Electronic Circuits I Lab	1	EENG250	EENG350
ENVR100	Global Environmental Issues	3	ELC103	
IENG300	Engineering Project Management	3	ENGL200	
MATH100	College Algebra	3	ELC103	
MATH120	Calculus I	3	MATH110	
MATH170	Calculus II	3	MATH120	
MATH220	Calculus III	3	MATH170	
MATH225	Linear Algebra with Applications	3	MATH170	
MATH270	Ordinary Differential Equations	3	MATH220	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH170	
MATH360	Advanced Engineering Math	3	MATH225 - MATH270	
MATH375	Numerical Methods for Scientists & Engineers	3	CSCI250 - MATH225 - MATH270	
PHYS100	College Physics I	3	ELC103	
PHYS150	College Physics II	3	PHYS100	PHYS150L
SSCI105	Basic Psychology	3	ELC103	
SSCI125	Basic Sociology	3	ELC103	
SSCI165	Introduction To Geography	3	ENGL150	
Total		65		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
MENG225	Engineering Drawing & CAD	3	CSCI200	
MENG250	Mechanics I (Statics)	3	PHYS150 - MATH170	
MENG300	Mechanics II (Dynamics I)	3	MENG250	
MENG310	Engineering Material Science	3	MENG250	CHEM200
MENG320	Engineering Thermodynamics I	3	PHYS150	MENG320L
MENG320L	Engineering Thermodynamics I Lab	1	PHYS150	MENG320
MENG350	Mechanics III (Dynamics II)	3	MENG300	
MENG360	Mechanics of Materials I	3	MENG250	MENG310 - MENG360L
MENG360L	Mechanics Of Materials I Lab	1	MENG250	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	MATH360 - MENG350	
MENG450	Mechanical Systems I	3	MENG350	
MENG495	Senior Project	3		
Total		43		

General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CSCI100E	Basic Computing Skills	3		
CSCI200	Introduction to Computers	3	CSCI100	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL000	Remedial English I	3		
ENGL025	Remedial English II	3	ENGL000	
ENGL075	Remedial English III	3	ENGL025	
ENGL150	English Composition & Rhetoric	3		
ENGL200	Advanced English Composition & Rhetoric	3	ENGL150	
ENGL250	Technical writing	3	ENGL200	
ENGL350	English Communication Skills	3	ENGL200	
Total		33		

General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
Total		6		

Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
EENG300	Electric Circuits II	3	EENG250	EENG300L