



L E B A N E S E
I N T E R N A T I O N A L
U N I V E R S I T Y

Major Title: Bachelor of Engineering in Mechanical Engineering
Major Code: BEMENG
Level: underGraduate
Number Of Credits: 150
Date: 10-08-2022

Bachelor of Engineering in Mechanical Engineering (BEMENG)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Major Elective	3		
	Major Elective	3		
	Major Elective	3		
Total		9		

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	PHYS161-PHYS160-MATH161-MATH160-ENGL051	MATH210
EENG370	Industrial Electronics	3	EENG250	EENG370L
EENG370L	Industrial Electronics Lab	1		EENG370
ENGG300	Engineering Economics	3	ENGL201-MATH225-MATH220	
MATH210	Calculus II	3	MATH161-MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	ENGL051-MATH161	
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	
PHYS220	Physics for Engineers	3	PHYS161-ENGL101-PHYS160	MATH210
Total		38		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
EENG435	Control Systems	3	PHYS220-MENG250-MATH270-MATH225-MATH310-EENG370	
EENG492	Electric Machines For Mechanical Engineers	3	PHYS220-EENG370	MENG430-EENG492L
EENG492L	Electric Machines For Mechanical Engineers Lab	1		EENG492
ENGG499	Practical Experience	4		

MENG225	Engineering Drawing & CAD	3		
MENG250	Statics	3	MATH161-MATH160-PHYS161- PHYS160-ENGL051	MATH210
MENG300	Dynamics	3	ENGL051-ENGL101-MENG250	PHYS220-MATH220
MENG310	Engineering Material Science	3	MENG250	CHEM200
MENG320	Engineering Thermodynamics I	3	MENG250	CHEM200-MENG320L
MENG320L	Engineering Thermodynamics I Lab	1		CHEM200-MENG320
MENG360	Mechanics of Materials I	3	MENG310	MENG360L
MENG360L	Mechanics Of Materials I Lab	1	MENG310	MENG360
MENG370	Fluid Mechanics I	3	MENG300	MATH375-MENG370L
MENG370L	Fluid Mechanics I Lab	1	MENG300	MENG370
MENG410	Mechanics of Materials II	3	MENG360	
MENG420	Heat Transfer	3	MENG370-MENG320	MENG420L
MENG420L	Heat Transfer Lab	1	MENG320	MENG420
MENG430	Mechanical Vibrations I	3	MENG300-MATH270	MENG410-MATH310- MENG430L
MENG430L	Mechanical Vibrations I Lab	1	CSCI250	MENG430
MENG450	Mechanical Systems I	3	MENG300	MENG430-MENG450L
MENG450L	Mechanical Systems I Lab	1	MENG300-MENG225	MENG450
MENG470	Internal Combustion Engines	3	MENG420	
MENG501L	Mechanical Engineering Workshop	1	MENG450L	
MENG520	Fluid Mechanics II	3	MENG470	
MENG525	Engineering Thermodynamics II	3	MENG420	
MENG550	Mechanical Systems II	3	MENG450	
MENG560	Machine Design I	3	MENG410	
MENG596	Capstone Project	6	MENG550-MENG615-MENG601- ENGL251-MENG610	
MENG601	Hydraulic and Pneumatic Systems	3	MENG470	MENG610-MENG525- MENG520
MENG610	Machine Design II	3	MENG560	MENG501L
MENG615	Refrigeration & Air conditioning	3	MENG470	MENG610-MENG520- MENG525-MENG615L
MENG615L	Refrigeration & Air conditioning Lab.	1		MENG615
Total		82		

General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGG450	Engineering Ethics and Professional Practice	3	ENGL251	ENGG300
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	

Total		15		
General Education Electives				
Code	Title	Credits	Prerequisites	Corequisites
	General Education Electives	3		
	General Education Electives	3		
Total		6		
Major Elective Courses				
Code	Title	Credits	Prerequisites	Corequisites
EENG585	Introduction to Mechatronics	3	MENG250-MENG601-EENG492-EENG435	
MENG555	Introduction To Finite Element Analysis	3		MENG560
MENG580	Advanced Heat Transfer	3	MENG520	
MENG585	Solar Energy & Thermal Systems	3	MENG525-MENG520	
MENG591	Automotive Engineering Fundamentals	3	MENG550	MENG591L
MENG591L	Automotive Engineering Fundamentals Lab	1	MENG550	MENG591
MENG595	Turbomachinery	3	MENG525-MENG520	
MENG615	Refrigeration & Air conditioning	3	MENG470	MENG610-MENG520-MENG525-MENG615L
MENG615L	Refrigeration & Air conditioning Lab.	1		MENG615
MENG655	Power Plant Engineering	3	MENG525-MENG520	