



The International University of Beirut
الجامعة الدولية في بيروت

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

Bachelor of Engineering in Industrial Engineering (BEIENG)

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	ENGG200-MATH210
ENGG200	Introduction to Engineering	3	MATH160-CHEM160	
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	
MENG225	Engineering Drawing & CAD	3		
MENG250	Statics	3	MATH161-MATH160-PHYS161-PHYS160-ENGL051	MATH210
PHYS220	Physics for Engineers	3	PHYS161-ENGL101-PHYS160	MATH210
Total		37		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
EENG370	Industrial Electronics	3	EENG250	EENG370L
EENG370L	Industrial Electronics Lab	1		EENG370
EENG500	Industrial Systems Automation and Control	3	CSCI250	EENG500L
EENG500L	Industrial Systems Automation and Control Lab	1		EENG500
ENGG450	Engineering Ethics and Professional Practice	3	ENGL251	ENGG300
ENGG499	Practical Experience	4		

IENG310L	Industrial Engineering Field Visit	1	ENGL201	
IENG320	Introduction to Environmental Engineering	3	ENGL201	
IENG350	Introduction to System Engineering	3	ENGG200-CSCI250	
IENG360	Operations Analysis Methods	3	MATH310	
IENG370	Industrial Systems Simulation	3	MATH310-CSCI250	
IENG400	Design and Analysis of Engineering Experiments	3	MATH310-CSCI250	
IENG410	Human Factors Engineering	3	IENG350-ENGL201	
IENG420	Industrial Engineering Information Systems	3	IENG350	
IENG430	Inventory Control	3	IENG350-CSCI250	
IENG440	Quality Control and Reliability	3	IENG360	
IENG450	Industrial Engineering CAD/CAM Tools	3	IENG350	
IENG460	Production Planning and Control	3	IENG430-IENG360	
IENG470	Facilities Planning	3	IENG440-IENG430	
IENG480	Manufacturing Processes	3	IENG400-IENG430	
IENG510	Manufacturing Systems	3	IENG460-IENG360	
IENG515	Organizational Environments	3	IENG410	
IENG551L	Industrial and Manufacturing Workshop	1	IENG510	
IENG555	Advanced Concepts in Quality Improvement	3	IENG440	
IENG565	Industrial Waste Management	3	IENG515-IENG320	
IENG570	Occupational Safety Engineering	3	IENG470	
IENG595	Capstone Project	6	IENG615-IENG555-ENGG450	
IENG615	Operations Research	3	IENG460-IENG430	
MENG310	Engineering Material Science	3	MENG250	CHEM200
Total		83		
General Education Requirements				
Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGG300	Engineering Economics	3	ENGL201-MATH225-MATH220	
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
EENG601	Advanced Systems Automation	3	EENG500	
ENGG510	Methods of Optimization	3	ENGG450-MATH310-MATH270-MATH220	IENG615
ENGG550	Engineering Project Management and Control	3	IENG420	
ENGG600	Engineering Entrepreneurship	3	ENGG450-IENG515	
IENG560	Infrastructure and Facilities Management	3	IENG510	
IENG610	Selected Topics in Industrial Engineering	3	ENGG450	
IENG625	Data Analysis and Decision Models	3	IENG410-MATH310	
IENG635	Food Engineering	3	IENG510-IENG440	
IENG640	Fundamentals of Petroleum and Petrochemical Engineering	3	IENG570-IENG480-IENG320	
IENG665	Oil and Gas Production Logistics	3	IENG640	
IENG680	Food Manufacturing Processes	3	IENG635	