



**Bachelor of Science in Industrial Engineering (IENG)**

**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		
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	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
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	
IENG495	Senior Project	3	IENG400	
MENG310	Engineering Material Science	3	MENG250	CHEM200
Total		50		

**General Education Requirements**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Prerequisites</b>	<b>Corequisites</b>
ARAB200	Arabic Language and Literature	3		
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGG300	Engineering Economics	3	ENGL201 - MATH225 - MATH220	
ENGG450	Engineering Ethics and Professional Practice	3	ENGL251	ENGG300
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
Total		18		

**General Education Electives**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Prerequisites</b>	<b>Corequisites</b>
	Elective	3		
Total		3		