

# Study Plan for the BS in Industrial Engineering

First Semester			SECOND SEMESTER		
Course#	Course Name	CR	Course#	Course Name	CR
ELEC221	Electric Circuits I	3	ELEC223	Digital Fundamentals	3
MATH202	Calculus & Analytic Geometry	3	MATH332	Linear Algebra	3
MATH222	Discrete Math	3	MATH 342	Ordinary Differential Equations	3
PHY205	General Physics II: Electromagnetics and Optics	3	PHY203	General Physics I: Mechanics	3
CSC203	Programming Structures & abstractions	3	IE 262	Enterprise Engineering	3
	University Requirement	3		University Requirement	3
			ELEC221L	Electric Circuits I Lab	1
	Total	18		Total	19
THIRD Semester			FOURTH Semester		
Course#	Course Name	CR	Course#	Course Name	CR
MATH203	Calculus IV	3	MATH442	Numerical Methods	3
MATH352	Probability & Statistics	3	PHY211	Material Science	3
PHY223	Thermodynamics and Modern Physics	3	IE 282	System Modeling and Optimization	3
IE 302	Introduction to Ergonomics	4	IE 330	Design and Manufacturing I	4
IE 322	Fundamentals of Engineering Economy	3	IE 355	Engineering Experimental Design	3
	Free Electives	3		University Requirement	3
	Total	19		Total	19
FIFTH Semester			SIXTH Semester		
Course#	Course Name	CR	Course#	Course Name	CR
IE 432	Production Systems and Operations	3	IE 499	Special Project/internship	3
IE 456	Quality Engineering	3	IE 483	Applied Research Methods	3
IE 411	Decision Support System for IE	3		Free Electives	3
	IE Major Electives	3		IE Major Electives	3
	University Requirement	3		University Requirement	3
	Total	15		Total	15