



Masters of Science in Industrial Engineering (MIENG)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
	Elective	3		
	Elective	3		
	Elective	3		
Total		15		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
EENG500	Industrial Systems Automation and Control	3		EENG500L
EENG500L	Industrial Systems Automation and Control Lab	1		EENG500
IENG510	Manufacturing Systems	3		
IENG515	Organizational Environments	3		
IENG550L	Industrial Engineering Field Visit	1		
IENG555	Advanced Concepts in Quality Improvement	3		
IENG560	Infrastructure and Facilities Management	3	IENG510	
IENG565	Industrial Waste Management	3		
IENG570	Occupational Safety Engineering	3		
IENG600L	Industrial Engineering Graduate Seminar I	1		
IENG615	Operations Research	3		
IENG660L	Industrial Engineering Graduate Seminar II	1	IENG600L	
IENG695A	Master Thesis Project (Part I)	3	IENG570 - IENG565 - IENG560 - IENG555 - IENG550L - IENG515 - IENG510	
IENG695B	Master Thesis Project (Part II)	3	IENG695A	
Total		34		

General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ENGG650	Engineering Profession & Ethics	3		
Total		3		

Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
ENGG500	Engineering Economics	3		
ENGG510	Methods of Optimization	3		IENG615
ENGG600	Engineering Entrepreneurship	3		
IENG610	Selected Topics in Industrial Engineering	3		
IENG625	Data Analysis and Decision Models	3	ENGG500	
IENG630	Financial Engineering	3		
IENG635	Food Engineering	3		
IENG640	Fundamentals of Petroleum and Petrochemical Engineering	3		
IENG655	Simulation of Production and Service Systems	3		

IENG665	Oil and Gas Production Logistics	3	IENG640	
IENG670	Advanced Engineering Economic Analysis	3		
IENG675	Computational Optimization	3		
IENG680	Food Manufacturing Processes	3	IENG635	