

Table 2: Industrial Engineering

Dual Degree Program Wisconsin Lutheran College PHYSICS and University of Wisconsin- Milwaukee INDUSTRIAL ENGINEERING UW-MILWAUKEE REQUIREMENTS			
Course/Credits required to earn the UWM Degree	Credits	Fulfilled by WLC Degree (X = yes, blank = no)	Still to be completed at UWM (X = yes, blank = no)
General Education Requirements			
Arts	3	X	
Humanities	6	X	
Social Sciences	6	X	
Cultural Diversity		X	
Competencies		X	
Free Electives	2	X	
Natural Science Requirements			
CHEM 105 General Chemistry I	5	X	
Other Natural Science	3	X	
PHYSICS 209 Physics I	4	X	
PHYSICS 210 Physics I	4	X	
Mathematics Requirements			
MATH 231 Calculus and Analytic Geometry	4	X	
MATH 232 Calculus and Analytic Geometry	4	X	
MATH 233 Calculus and Analytic Geometry	4	X	
ELECENG 234 Analytical Methods in Engineering	4	X	
Engineering Core Requirements			
CIV ENG 201 Statics	3		X
CIV ENG 202 Dynamics	3	X	
COMPSCI 240 Intro Engineering Programming	3		X
EAS 200 Professional Seminar	1		X
ELECENG 301 Electrical Circuits I	3		X
MATLENG 201 Basic Engineering Materials	4		X
Industrial Engineering Major Requirements			
IND ENG 111 Introduction to Engineering	3		X
IND ENG 112 Engineering Drawing & CAD	3		X
IND ENG 350 Manufacturing Processes	3		X
IND ENG 360 Engineering Economic Analysis	3		X
IND ENG 370 Introduction to Operations Analysis	3		X
IND ENG 455 Operations Research I	3		X
IND ENG 467 Intro Statistics Physical Sciences & Engineering	3		X
IND ENG 465 Operations Research II	3		X
IND ENG 470 Method Engineering	3		X
IND ENG 475 Simulation Methodology	3		X
IND ENG 485 Senior Design	3		X
IND ENG 571 Quality Control	3		X
IND ENG 575 Design of Experiments	3		X
IND ENG 580 Ergonomics	3		X
IND ENG 583 Facility Layout and Material Handling	3		X
Industrial Engineering Technical Electives - 12			
MECHENG 301 Basic Engineering Thermodynamics	3	X	
Technical Electives	9		X
Total Credits - Industrial Engineering Major	125	55	70