

**Industrial Engineering Curriculum - Effective Fall, 2003 01-29-04**

Department	No.	Title	Hrs	Prereqs. (ID)	Completed
<b>ENGINEERING ANALYSIS</b>					
IE/ENGR	220	Engineering Statics	2	Phys251	
IE	265	Engineering Economy	3	Math191	
IE	295	Manufacturing Materials & Processes	3		
IE	335	Quality Control & Reliability	3	Math300	
MATH	300	Probability & Statistics I	3	Math192 (co-requisite)	
MATH	301	Probability & Statistics II	3	Math300	
IE/ENGR	302	Engineering Dynamics	3	IE220	
CSCI	195	Programming Language C & UNIX	3	CSCI120	
Must choose 2 from these 3.			6		
IE/ENGR	303	Strength of Materials, or		IE220	
	312	Thermodynamics, or		Math280, Phys253	
PHYS	306	Electronics		Phys253	
<b>ENGINEERING DESIGN</b>					
IE	105	Introduction to Industrial Engineering	3		
IE/ENGR	110	Engineering Graphics	3		
IE	300	Industrial Engineering Methods	3	Math300	
IE	304	Design Fundamentals for IE's	3	IE110, IE295	
IE	340	Ergonomics & Occupational Safety	3	Math300	
IE	350	Operational Planning, Schedule & Control	3	IE265	
WI-IE	351†	Industrial Engineering Design Lab	3	IE350, IE300	
IE	375	Computer-Aided Manufacturing Systems	3	IE110, IE295	
IE	391	Operations Research - Probability Models	3	Math300	
IE	400	Introduction to Simulation	3	Math300	
IE	409	Operations Research - Mathematical Programming	3	Math280	
IE	415	System Integration & Design	3	IE350	
WI-IE	490†	Senior Design Seminar	3	IE415 (co-requisite)	
<b>ENGINEERING SEMINAR/EXPERIENCE</b>					
IE	201	Industrial Engineering Seminar I	0		
IE	301	Industrial Engineering Seminar II	0		
IE	401	Industrial Engineering Seminar III	0		
IE	450	Professional Experience	3	One IE course	
<b>ADVANCED MATHEMATICS &amp; SCIENCE</b>					
MATH	192	Calculus & Analytic Geometry II	4	Math191	
MATH	280	Engineering Mathematics	4	Math192 (co-requisite)	
PHYS	253	General Physics II	4	Phys251	
<b>GENERAL EDUCATION REQUIREMENTS</b>					
ENGL	101	Written Communication	3		
COMM		Oral Communication	2-3		
MATH	191	Calculus & Analytic Geometry I	4	Math171 or equivalent	
PED	149	Wellness Concepts	1		
PED		PE course	1		
IL	101	Information Literacy	1		
Language		Competency or 201 equivalent	0-11		
<b>PHIL/THEO</b>			12		
PHIL	305	Business Ethics			
		course			
		course			
		course			
<b>HUMANITIES</b>			5-7		
		course			
		course			
<b>CREATIVE ARTS</b>			2-3		
		1 year applied music <i>or</i> 1 course			
<b>SOCIAL SCIENCES</b>			2-3		
		1 course			
<b>NATURAL SCIENCES</b>					
CHEM	103 or 105	Principles of Chemistry or General Chemistry I	4	Math151	
<b>MULTIDISCIPLINARY</b>			10		
PHYS	251	General Physics I		Math191, Math192 (co-requisite)	
		Humanities course			
		Social Science course			