

## Industrial Engineering

Industrial Engineering							
	UI Course #	University of Iowa Course Title	SH		ILCC Course	Iowa Lakes Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	<b>BOTH</b>	MAT 211	Calculus I	5
					MAT 217	Calculus II	5
	ENGR:1100	Engineering Problem Solving I	3		No equivalent course offered		
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 166	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	<b>CHOOSE 1</b>	ENG 105	Composition I	3
					ENG 106	Composition II	3
					SPC 112	Public Speaking	3
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered		
	Total		16				
Semester 2							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		Mat 218**	Calculus III	3
	MATH:2550	Engineering Math III – Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Engineering Problem Solving II	3	<b>CHOOSE 1</b>	CIS 171	Java	3
					CIS 162	C++	4
					CIS 161	C++	3
	PHYS:1611	Introductory Physics I with Lab	4		PHY 212	Classical Physics I	5
	General Education Component #1	3					
	Total		16				
Semester 3							
Fall	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace Transforms	4
	PHYS:1612	Introductory Physics II (Without Lab)	3		PHY 222	Classical Physics II	5
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGT 139	Statics Engineering	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3	No equivalent course offered			
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3	No equivalent course offered			
	PSY:1001	Elementary Psychology (General Education#2)	3		PSY 111	Introductory Psychology	3
	IE:2000	Sophomore Seminar: Industrial Engineering	0	No equivalent course offered			
	Total		17				
Semester 4							
Spring	IE:2500	Engineering Economy	3	No equivalent course offered			
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3	No equivalent course offered			
	ENGR:2720	Materials Science	3	No equivalent course offered			
	IE:3500	Information Systems Design	3	No equivalent course offered			
		Elective Focus Area #1	3				
	Total		15				

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<b>Semester 5</b>						
Fall	IE:3610	Stochastic Modeling	3		No equivalent course offered	
	ENGR:2760	Design for Manufacturing	3		No equivalent course offered	
	IE:3400	Human Factors	3		No equivalent course offered	
	IE:3700	Operations Research	3		No equivalent course offered	
		General Education Component #3	3			
	<b>Total</b>		<b>15</b>			
<b>Semester 6</b>						
Spring	IE:3300	Manufacturing Systems	3		No equivalent course offered	
	IE:3450	Ergonomics	3		No equivalent course offered	
	IE:3760	Applied Linear Regression	3		No equivalent course offered	
	IE:3750	Digital Systems Simulation	3		No equivalent course offered	
		Elective Focus Area #2	3			
		General Education Component #4	3			
	IE:3000	Professional Seminar: Industrial Engineering	0		No equivalent course offered	
	<b>Total</b>		<b>18</b>			
<b>Semester 7</b>						
Fall	IE:3350	Process Engineering	4		No equivalent course offered	
	IE:3600	Quality Control	3		No equivalent course offered	
		Elective Focus Area #3	3			
		Elective Focus Area #4	3			
		General Education Component #5	3			
	<b>Total</b>		<b>16</b>			
<b>Semester 8</b>						
Spring	IE:4600	Industrial Engineering Design Project (IEDP)	4		No equivalent course offered	
		Systems Elective	3		No equivalent course offered	
		Math/Science Elective Focus Area #5	3			
		Elective Focus Area #6	3			
		Elective Focus Area #7	3			
	IE:3000	Professional Seminar: Industrial Engineering	0		No equivalent course offered	
	<b>Total</b>		<b>16</b>			

2017-18 Curriculum

updated June 2018

\* 1sh; does not count toward 128 sh total required for graduation

\*\*Students must have completed Calculus I, II, and III to receive credit for Engineering Math II