

## Industrial Engineering

Industrial Engineering							
	UI Course #	University of Iowa Course Title	SH		IHCC Course #	Indian Hills Course Title	SH
<b>Semester 1</b>							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	<b>BOTH</b>	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Engineering Problem Solving I	3		EGR 160	Engineering I	
	CHEM:1110	Principles of Chemistry I	4	<b>BOTH</b>	CHM 157	Principles of Chemistry I	3
					CHM 158	Principles of Chemistry II	3
				<b>OR</b>	CHM 166	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4		ENG 105	Composition I (Writing Component I)	3
					ENG 106	Composition II (Writing Component II)	3
				<b>CHOOSE 1</b>	SPC 101	SPC 101: Fundamentals of Oral Communication (Speech Component)	3
	SPC 112	SPC 112: Public Speaking (Speech Component)	3				
ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
	<b>Total</b>		<b>16</b>				
<b>Semester 2</b>							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III – Matrix Algebra	2		EGR 162	Engineering Math - Matrix Algebra	2
	ENGR:1300	Engineering Problem Solving II	3	<b>CHOOSE 1</b>	EGR 165	Engineering II	3
					CIS 171	Java	3
					CIS 169	C#	3
	PHYS:1611	Introductory Physics I	4	<b>BOTH</b>	PHY 200	Classical Physics I	3
					PHY 201	Classical Physics II	3
	General Education Component #1	3					
	<b>Total</b>		<b>16</b>				
<b>Semester 3</b>							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	3
	PHYS:1612	Introductory Physics II	4	<b>BOTH</b>	PHY 201	Classical Physics II	3
					PHY 202	Classical Physics III	3
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 284	Intro to Electrical Circuits	3
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3
	PSY:1001	Elementary Psychology (General Education#2)	3		PSY 111	Introduction to Psychology	3
	IE:2000	Sophomore Seminar: Industrial Engineering	0		No equivalent course offered		
	<b>Total</b>		<b>17</b>				
<b>Semester 4</b>							
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	Material Science	3		No equivalent course offered		
	IE:3500	Information Systems Design	3		No equivalent course offered		
		Elective Focus Area #1	3				
		<b>Total</b>		<b>15</b>			

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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