

Industrial Engineering								
	UI Course #	University of Iowa Course Title	SH		KCC Course #	Kirkwood Course Title	SH	
<b>Semester 1</b>								
Fall	Math 1550	Engineering Math I: Single Variable Calculus	4	<b>BOTH</b>	MAT 210 MAT 216	Calculus I Calculus II	4 4	
	ENGR:1100	Engineering Problem Solving I	3		EGR 160	Engineering I	3	
	CHEM:1110	Principles of Chemistry I	4		CHM 165	General Chemistry I	4	
	RHET:1030	Rhetoric (Choose one in each section: Writing Component 1, Writing Component 2, Speech Component)	4	<b>CHOOSE 1</b>		ENG 105	Composition I (Writing Component I)	3
						ENG 106	Composition II (Writing Component II)	3
						ENG 108	Composition II: Tech (Writing Component II)	3
						ENG 120	College Writing (Writing Component II)	5
				<b>CHOOSE 1</b>		SPC 101	Fund. of Oral Comm. (Speech Component)	3
						SPC 112	Public Speaking (Speech Component)	3
ENGR:1000	Engr Success for First Year Students	1		No equivalent course offered				
	Total	16						
<b>Semester 2</b>								
Spring	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4	
	ENGR:1300	Engineering Problem Solving II	3	<b>CHOOSE 1</b>		CIS 171	Java Programming I	3
						CIS 175	Java Programming II	3
						EGR 167	Engineering II	4
						CSC 142	Computer Science	4
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5	
	MATH:2550	Engineering Math III: Matrix Algebra	2		MAT 149	Linear Algebra	3	
	General Education Component #1	3						
	Total	16						
<b>Semester 3</b>								
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations/LaPlace	4	
	PHYS:1612	Introductory Physics II (Without Lab)	3		PHY 222	Classical Physics II	5	
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3	
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 285	Introduction to Electrical Science	4	
	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	0		No equivalent course offered			
		Total	17					
<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	Materials Science	3		EGR 170	Material Science	3	
	IE:3500	Information Systems Design	3		No equivalent course offered			
		Elective Focus Area #1	3					
		Total	15					

Semester 5					
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		
	Total		15		
Semester 6					
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
	Total		18		
Semester 7					
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		
	Total		16		
Semester 8					
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		No equivalent course offered
		Elective Focus Area #6	3		
		Elective Focus Area #7	3		
	IE:3000	Professional Seminar: Industrial Engineering	0		No equivalent course offered
	Total		16		

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