

Industrial Engineering

	UI Course #	University of Iowa Course Title	SH		EICC Course #	Eastern Iowa CC District Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 160	Engineering I	3
	CHEM:1110	Principles of Chemistry I & Lab	4	CHOOSE 1	CHM 165	General Chemistry I	4
					CHM 166	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	CHOOSE 1	ENG 105	Composition I	3
					ENG 107	Composition I:Technical Writing	3
					ENG 106	Composition II	3
ENG 108					Composition II:Technical Writing	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: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III: Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1	CIS 171	Java	3
					CIS 172	Java	4
					CIS 161	C++	3
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5
	General Education Component #1	3					
	Total	16					
Semester 3							
Fall	MATH2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with 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	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		
	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	Material 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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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			
		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