

Industrial Engineering

Industrial Engineering							
	UI Course #	University of Iowa Course Title	SH		HCC Course #	Hawkeye CC 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 410	Principles of Engineering	3
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General Chemistry I	4
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	ALL	ENG 105	Composition I	3
					ENG 106	Composition II	3
			SPC 101		Fund. of Oral Communication	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 219**	Calculus III	4
	MATH:2550	Engineering Math III – Matrix Algebra	2	No equivalent course offered			
	ENGR:1300	Introduction to Engineering Computing	3	No equivalent course offered			
	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	No equivalent course offered			
	PHYS:1612	Introductory Physics II (Without Lab)	3	PHY 222	Classical Physics II	5	
	ENGR:2110	Engineering Fundamentals I: Statics	2	No equivalent course offered			
	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	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	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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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