University of Iowa- College of Engineering & Iowa Central Community College



		INDUSTRIAL	E	NGINE	ERING		
	UI Course #	University of Iowa Course Title	SH			lowa Central CC Course Title	S
mester 1	1						
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	вотн	MAT 210	Calculus I	
					MAT 216	Calculus II	
	ENGR:1100	Introduction to Engineering Problem Solving	3		No equivalent cou	urse offered	
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General Chemistry I	
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	ALL	ENG 105	Composition I	
					ENG 106	Composition II	
					SPC 112	Public Speaking	
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered		
		Total	16				
mester 2	2						
	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	
Spring	MATH:2550	Engineering Math III: Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1	CIS 172	Java	
					CIS 162	C++	
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	
		General Education Component #1	3				
		Total	16				
mester 3	3						
	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	
	PHYS:1612	Introductory Physics II (Without Lab)	3		PHY 222	Classical Physics II	
	ENGR:2110	Engineering Fundamentals I – Statics	2		No equivalent course offered		
Fall	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		No equivalent course offered		
raii	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivalent course offered		
	PSY:1001	Elementary Psychology (General Education#2)	3		PSY 111	Introduction to Psychology	
	IE:2000	Sophomore Seminar: Industrial Engineering	0		No equivalent course offered		
		Total	17				
nester 4	1				,		
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				

INDUSTRIAL ENGINEERING									
	UI Course #	University of Iowa Course Title	SH	ICCC Course # Iowa Central CC Course Title S					
emester 5									
	IE:3610	Stochastic Modeling	3	No equivalent course offered					
	ENGR:2760	Design for Manufacturing	3	No equivalent course offered					
Fall	IE:3400	Human Factors	3	No equivalent course offered					
FdII	IE:3700	Operations Research	3	No equivalent course offered					
		General Education Component #3	3						
		Total	15						
emester 6									
	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					
Spring	IE:3750	Digital Systems Simulation	3	No equivalent course offered					
Spring		Elective Focus Area #2	3						
		General Education Component #4	3						
	IE:3000	Professional Seminar: Industrial Engineering	0	No equivalent course offered					
		Total	18						
emester 7									
	IE:3350	Process Engineering	4	No equivalent course offered					
	IE:3600	Quality Control	3	No equivalent course offered					
Fall		Elective Focus Area #3	3						
I all		Elective Focus Area #4	3						
		General Education Component #5	3						
		Total	16						
emester 8									
	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						
Spring		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

 $[\]ensuremath{^{*}}$ 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