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



College of Engineering

		Industria	l Ei	nginee	ring			
	UI Course #	University of Iowa Course Title	SH		EICC Course #	Eastern Iowa CC District Course Title	SH	
Semester 1	l				•			
	MATH:1550	Engineering Math I – Single Variable Calculus	4	вотн	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	
Fall	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)		CHOOSE 1	ENG 105	Composition I	3	
Fall			4		ENG 107	Composition I:Technical Writing	3	
				CHOOSE 1	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	2							
	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	
Spring					CIS 172	Java	4	
Spring					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	3							
	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	
Fall	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	1		-					
	IE:2500	Engineering Economy	3		No equivalent course offered			
Spring	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered			
	ENGR:2720	Material Science	3		No equivalent course offered No equivalent course offered			
	IE:3500	Information Systems Design	3		ivo equivalent co	urse offered		
		Elective Focus Area #1	3					
		Total	15					

Industrial Engineering										
	UI Course #	University of Iowa Course Title	SH	EICC Course #	Eastern Iowa CC District Course Title	SH				
emester	5									
Fall	IE:3610	Stochastic Modeling	3	No equivalent co	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 co	No equivalent course offered					
		General Education Component #3	3							
		Total	15							
emester	6									
Spring	IE:3300	Manufacturing Systems	3	No equivalent co	ourse offered					
	IE:3450	Ergonomics	3	No equivalent co	ourse offered					
	IE:3760	Applied Linear Regression	3	No equivalent co	ourse offered					
	IE:3750	Digital Systems Simulation	3	No equivalent co	ourse offered					
		Elective Focus Area #2	3							
		General Education Component #4	3							
	IE:3000	Professional Seminar: Industrial Engineering	0	No equivalent co	ourse offered					
		Total	18							
emester	7									
Fall	IE:3350	Process Engineering	4	No equivalent co	ourse offered					
	IE:3600	Quality Control	3	No equivalent co	ourse offered					
		Elective Focus Area #3	3							
		Elective Focus Area #4	3							
		General Education Component #5	3							
		Total	16							
emester	8									
Spring	IE:4600	Industrial Engineering Design Project (IEDP)	4	No equivalent co	ourse offered					
		Systems Elective	3	No equivalent co	ourse 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 co	ourse offered					
		Total	16							

2017-18 Curriculum

 * 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

updated June 2018