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



		Computer Science	ce	anu E	<u>inginee</u>	ring		
	UI Course #	University of Iowa Course Title	SH		EICC Course #	Eastern Iowa CC District Course Title	SI	
emester 1								
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	POTU	MAT 210	Calculus I	4	
				вотн	MAT 216	Calculus II	4	
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1	CIS 171	Java	;	
					CIS 172	Java		
					CIS 161	C++		
	CHEM:1110	Principles of Chemistry I & Lab	4	CHOOSE 1	CHM 165	General Chemistry I		
					CHM 166	General Chemistry I		
		Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)		CHOOSE 1	ENG 105	Composition I		
					ENG 107	Composition I:Technical Writing		
	RHET:1030		4	CHOOSE 1	ENG 106	Composition II		
					ENG 108	Composition II:Technical Writing		
					SPC 112	Public Speaking		
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent co	No equivalent course offered		
		Total	16					
emester 2								
	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III		
	MATH:2550	Engineering Math III: Matrix Algebra	2		No equivalent course offered			
Carina	CS:1210	Computer Science I: Fundamentals	4		No equivalent course offered			
Spring	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I		
		General Education Component #1	3			•		
		Total	17					
emester 3								
	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace		
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II		
Fall	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics		
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 285	Introduction to Electrical Science		
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics		
		Total	15					
emester 4								
	CS:2210	Discrete Structures	3		No equivalent co	ourse offered		
Spring	ECE:2400	Linear Systems I	3		No equivalent course offered			
	ECE:2410	Principles of Electronic Instrumentation	4		No equivalent course offered			
	ENGR:2730	Computers in Engineering	3		No equivalent co	ourse offered		
		General Education Component #2	3					
		Total	16					

	UI Course #	University of Iowa Course Title	SH	EICC Course # Eastern Iowa CC District Course Title	SH
emester 5					
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3	No equivalent course offered	
	ECE:3320	Intro to Digital Design	3	No equivalent course offered	
Fall	CS:2230	Computer Science II, Data Structures	4	No equivalent course offered	
	ECE:3330	Introduction to Software Design	3	No equivalent course offered	
		General Education Component #3	3		
	ECE:3000	Professional Seminar	1	No equivalent course offered	
		Total	17		
emester 6					
	CS:3330	Algorithms	3	No equivalent course offered	
	ECE:3350	Computer Architecture and Organization	3	No equivalent course offered	
Spring	ECE:3360	Embedded Systems and System Software	3	No equivalent course offered	
		Elective Focus Area #1	3		
		General Education Component #4	3		
	CS:3820	Programming Language Concepts	3	No equivalent course offered	
		Total	18		
emester 7					
	ECE:4880	Principles of CSE Design	3	No equivalent course offered	
Fall		Elective Focus Area #2 {technical, CS)	3	No equivalent course offered	
		Elective Focus Area #3 (technical, ECE)	3	No equivalent course offered	
	ECE:3540	Communication Networks	3	No equivalent course offered	
	CS:3620	Operating System	3		
		Total	15		
emester 8					
	ECE:4890	Senior CSE Design	3	No equivalent course offered	
	CS:4330	Theory of Computation (Theory Elective)	3	No equivalent course offered	
CHOOSE 1	CS:4350	Logic in Computer Science (Theory Elective)	3	No equivalent course offered	
Spring		Elective Focus Area #5 (advanced CS)	3	No equivalent course offered	
		Elective Focus Area #6 (advanced ECE)	3	No equivalent course offered	
		General Education Component #5	3	·	
		Total	15		

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