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



	UI Course #	omputer Science and Englishing University of Iowa Course Title	SH		ICCC Course	# Iowa Central CC Course Title	SH	
emester 1	L							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	DOT!!	MAT 210	Calculus I	4	
				вотн	MAT 216	Calculus II	4	
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1	CIS 172	Java	4	
					CIS 162	C++	4	
	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 112	Public Speaking	3	
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
		Total	16					
emester 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			
	CS:1210	Computer Science I: Fundamentals	4		No equivalent course offered			
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	!	
		General Education Component #1	3					
		Total	17					
mester 3	3					<u>.</u>		
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace		
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II	!	
	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			
		Total	15					
mester 4	1					_		
Spring	CS:2210	Discrete Structures	3	CHOOSE 1	MAT 150	Discrete Math		
					CIS 153	Data Structures] .	
	ECE:2400	Linear Systems I	3		<u> </u>	No equivalent course offered		
	ECE:2410	Principles of Electronic Instrumentation	4		No equivalent course offered			
	ENGR:2730	Computers in Engineering	3		No equivalent course offered			
		General Education Component #2	3					
		Total	16	I	1			

	UI Course #	University of Iowa Course Title	SH	ring (CSE) - Curriculum ICCC Course # Iowa Central CC Course Title
emester !		•		
Fall	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
	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
	ECE:3360	Embedded Systems and System Software	3	No equivalent course offered
Spring		Elective Focus Area #1	3	
		General Education Component #4	3	
	CS:3820	Programming Language Concepts	3	No equivalent course offered
		Total	18	
emester :	7			
Fall	ECE:4880	Principles of CSE Design	3	No equivalent course offered
		Elective Focus Area #2 (technical, CS)	3	
		Elective Focus Area #3 (technical, ECE)	3	
	ECE:3540	Communication Networks	3	No equivalent course offered
	CS:3620	Operating Systems	3	No equivalent course offered
		Total	15	
emester 8	8			
Spring	ECE:4890	Senior CSE Design	3	No equivalent course offered
		Theory Elective: CS:4330 or CS:4350	3	No equivalent course offered
		Elective Focus Area #4 (advanced CS)	3	
		Elective Focus Area #5 (advanced ECE)	3	
		General Education Component #5	3	
		Total	15	

2017-18 Curriculum updated June 2018

^{* 1}sh; 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